



**Enduring Resources**

475 17<sup>TH</sup> Street Suite 1500 Denver Colorado 80202  
Telephone 303 573-1222 Fax 303 573 0461

January 19, 2006

Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801  
Attn.: Ms. Diana Whitney

**RE: Asphalt Wash 10-23-14-28 Well**

Surface Location: NENW Sec. 33-10S-23E **(3-well Location)**  
896' FNL - 1,497' FWL  
Lease Serial No.: UTU-73451

Bottom Hole Location: SWSW Sec. 28-10S-23E  
660' FSL - 660' FWL  
Lease Serial No.: FEE (American Gilsonite)  
Uintah County, Utah

Dear Ms. Whitney:

Enclosed is an original application to drill concerning the above-referenced proposed well. Also enclosed is a copy of the BLM APD. ***This well's surface is on federal lands and there is no damage agreement with American Gilsonite.***

Enduring Resources, LLC is requesting the Utah Division of Oil, Gas and Mining to hold this application and all future information as confidential.

If any questions arise or additional information is required, please contact me at 303-350-5114.

Very truly yours,

**ENDURING RESOURCES, LLC**

Alvin R. (Al) Arlian  
Landman-Regulatory Specialist

JAN 23 2006

ara  
Enclosures:

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

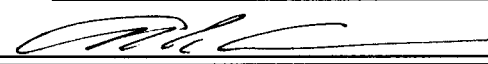
AMENDED REPORT ☐  
(highlight changes)

|  |  |   |                                 |  |                        |
|--|--|---|---------------------------------|--|------------------------|
| <b>APPLICATION FOR PERMIT TO DRILL</b>   |  |   |                                 | 5. MINERAL LEASE NO:<br>fee  | 6. SURFACE:<br>Federal |
| 1A. TYPE OF WORK:    DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>  |  |   |                                 | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME:  |                        |
| B. TYPE OF WELL:    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____    SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>   |  |   |                                 | 8. UNIT OR CA AGREEMENT NAME:  |                        |
| 2. NAME OF OPERATOR:<br>Enduring Resources, LLC  |  |   |                                 | 9. WELL NAME and NUMBER:<br>Asphalt Wash 10-23-14-28                           |                        |
| 3. ADDRESS OF OPERATOR:<br>475 17th St., Ste 1500    CITY Denver    STATE CO    ZIP 80220  |  |   | PHONE NUMBER:<br>(303) 350-5114 | 10. FIELD AND POOL, OR WILDCAT:<br><del>Undesignated</del> Natural Butte       |                        |
| 4. LOCATION OF WELL (FOOTAGES)<br>AT SURFACE: 896' FNL - 1,497' FWL    NENW Sec. 33-10S-23E (3-well Location)<br>AT PROPOSED PRODUCING ZONE: 660' FSL - 660' FWL    SWSW Sec. 28-10S-23E<br>642294x 4418904y 39.910188 -109.335271<br>642019x 4419375y 39.914458 -109.338274 |  |   |                                 | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br>SWSW 28    10S    23E    S |                        |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:<br>83.25 miles southwest of Vernal, UT   |  |   |                                 | 12. COUNTY:<br>Uintah  | 13. STATE:<br>UTAH     |
| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)<br>660'  |  | 16. NUMBER OF ACRES IN LEASE:<br>40 acres         |                                 | 17. NUMBER OF ACRES ASSIGNED TO THIS WELL:<br>40 acres                         |                        |
| 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)<br>1000' + BHL (25' Surface)   |  | 19. PROPOSED DEPTH:<br>7,610                      |                                 | 20. BOND DESCRIPTION:<br>RLB0008031  |                        |
| 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):<br>5273'    RT-KB  |  | 22. APPROXIMATE DATE WORK WILL START:<br>4/1/2006 |                                 | 23. ESTIMATED DURATION:<br>20 days   |                        |

| 24. PROPOSED CASING AND CEMENTING PROGRAM |   |      |       |               |   |         |              |
|---|---|------|-------|---------------|---|---------|--------------|
| SIZE OF HOLE                              | CASING SIZE, GRADE, AND WEIGHT PER FOOT |      |       | SETTING DEPTH | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT |         |              |
| 20"                                       | 14" line pipe                           |      |       | 40            | 3 yards Ready Mix                               |         |              |
| 11"                                       | 8-5/8"                                  | J-55 | 24#   | 2,000         | Premium Lead                                    | 138 sxs | 3.50    11.1 |
|   |   |      |       |               | Premium Tail                                    | 138 sxs | 1.15    15.8 |
| 7-7/8"                                    | 4-1/2"                                  | N-80 | 11.6# | 7,610         | Class G   | 104 sxs | 3.3    11.0  |
|   |   |      |       |               | 50/50 Poz Class G                               | 860 sxs | 1.56    14.3 |
|   |   |      |       |               |   |         |              |
|   |   |      |       |               |   |         |              |
|   |   |      |       |               |   |         |              |

| 25. ATTACHMENTS  |  |
|--|--|
| VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:  |  |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER<br><input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN<br><input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

CONFIDENTIAL

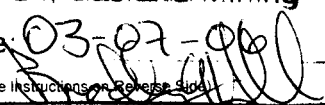
NAME (PLEASE PRINT) Alvin R. (Al) Arlian    TITLE Landman - Regulatory Specialist  
 SIGNATURE     DATE 1/19/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-37639

(11/2001)

**Federal Approval of this  
Action Is Necessary**

**Approved by the  
Utah Division of  
Oil, Gas and Mining**  
 Date: 03-07-06  
 By: 

**RECEIVED  
JAN 31 2006**

DIV. OF OIL, GAS & MINING

## ENDURING RESOURCES

WELL LOCATION, ASPHALT WASH  
10-23-14-28, LOCATED AS SHOWN IN  
THE SW 1/4 SW 1/4 OF SECTION 28,  
T10S, R23E, S.L.B.&M. Uintah County,  
UTAH.

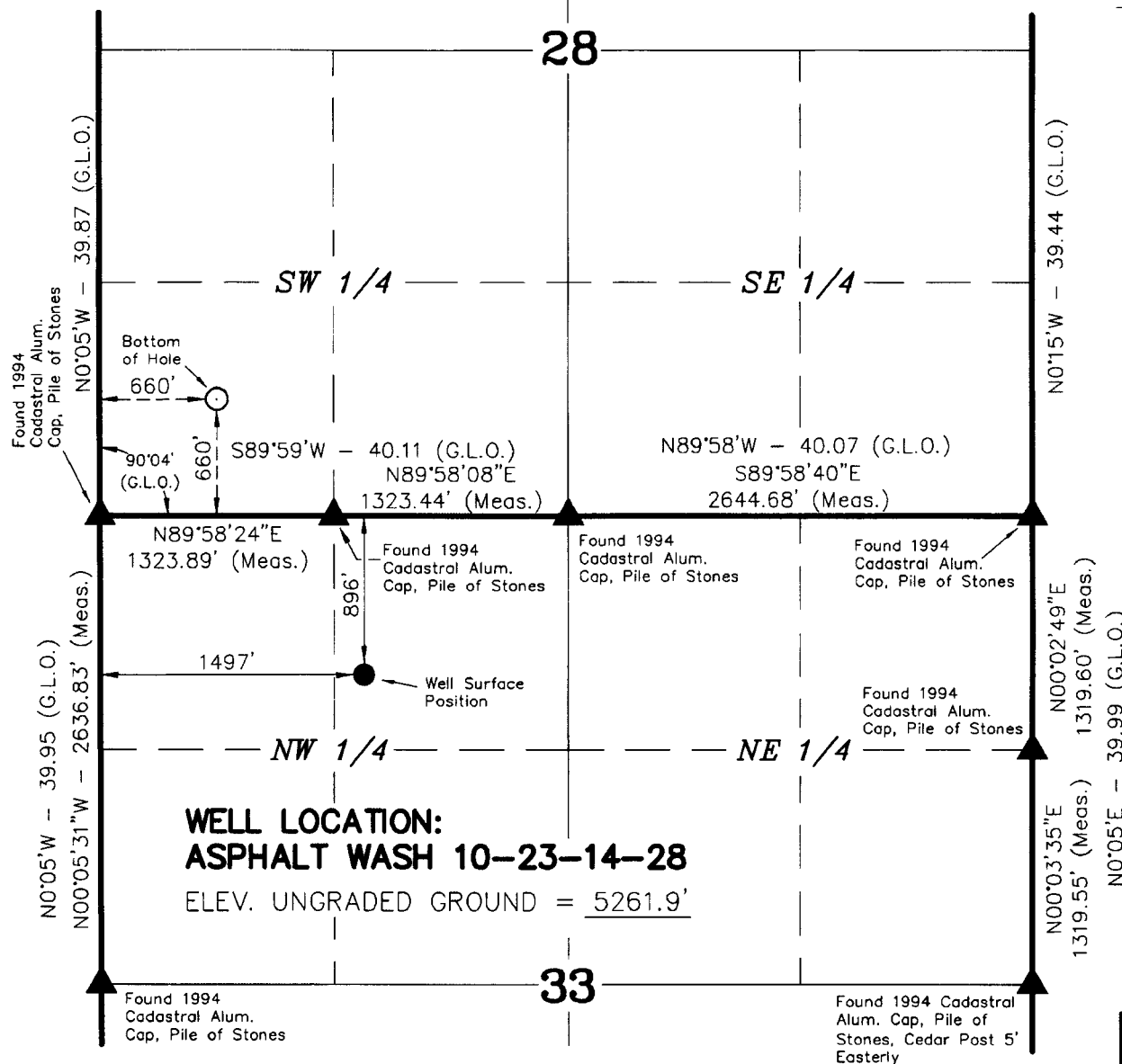
NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. The Bottom of hole bears N28°21'12"W 1767.27' from the Surface Position.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is triangulation station JEK 19 ET 1966 which is located at the South 1/4 corner of Section 8, T11S, R23E, S.L.B.&M. The elevation of this triangulation station is shown on the Archy Bench SE 7.5 min. Quadrangle as being 6054'.

THIS IS TO CERTIFY THAT THE ABOVE THAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF.

No. 362251  
KOLBY R.  
KAY

REGISTERED LAND SURVEYOR  
REGISTRATION No. 384251  
STATE OF UTAH



▲ = SECTION CORNERS LOCATED

ASPHALT WASH 10-23-14-28  
(Bottom Hole) NAD 83 Autonomous  
LATITUDE = 39° 54' 52.16"  
LONGITUDE = 109° 20' 20.30

ASPHALT WASH 10-23-14-28  
(Surface Position) NAD 83 Autonomous  
LATITUDE = 39° 54' 36.79"  
LONGITUDE = 109° 20' 09.54"

**TIMBERLINE LAND SURVEYING, INC.**

38 WEST 100 NORTH. - VERNAL, UTAH 84078  
(435) 789-1365

DATE SURVEYED:  
5-24-5

SURVEYED BY: B.J.S.

DATE DRAWN:  
11-10-05

DRAWN BY: J.R.S.

SCALE: 1" = 1000'

Date Last Revised:

**SHEET  
2b  
OF 11**



**Enduring Resources**

475 17<sup>th</sup> Street Suite 1500 Denver Colorado 80202  
Telephone 303 573-1222 Fax 303 573 0461

February 10, 2006

Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801  
Attn.: Ms. Diana Whitney

AD  
43-047-37439

**RE: Asphalt Wash 10-23-14-28 Well**  
**Surface Location: NENW Sec. 33-10S-23E (3-well Location)**  
896' FNL - 1,497' FWL  
Lease Serial No.: UTU-73451  
**Bottom Hole Location: SWSW Sec. 28-10S-23E**  
660' FSL - 660' FWL  
Lease Serial No.: FEE (American Gilsonite)  
Uintah County, Utah

Dear Ms. Whitney:

Enclosed are two original copies of the ***DIRECTIONAL DRILLING PLAN*** for the above-referenced proposed well. The quarter/quarter on the header of the plan is the surface location. This information was also submitted to the BLM.

This information was inadvertently omitted from the APD sent to you earlier. ***This well's BHL is under FEE land and the surface location is on federal lands.***

Enduring Resources, LLC is requesting the Utah Division of Oil, Gas and Mining to hold this application and all future information as confidential.

If any questions arise or additional information is required, please contact me at 303-350-5114.

Very truly yours,

**ENDURING RESOURCES, LLC**

Alvin R. (Al) Arlian  
Landman-Regulatory Specialist

FEB 14 2006

ara  
Enclosures:



**ENDURING RESOURCES**  
**Asphalt Wash 10-23-14-28**  
**NE/NW Sec. 33, T10S, R23E**  
**Uintah County, Utah**



**Weatherford**



**CONFIDENTIAL**

**SECTION DETAILS**

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | DLeg | TFace  | VSec    | Target     |
|-----|---------|-------|--------|---------|---------|---------|------|--------|---------|------------|
| 1   | 0.00    | 0.00  | 331.65 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    |            |
| 2   | 2098.00 | 0.00  | 331.65 | 2098.00 | 0.00    | 0.00    | 0.00 | 331.65 | 0.00    | KOP        |
| 3   | 3098.00 | 40.00 | 331.65 | 3018.73 | 294.92  | -159.13 | 4.00 | -28.35 | 335.12  | End Build  |
| 4   | 4630.36 | 40.00 | 331.65 | 4192.58 | 1161.77 | -626.86 | 0.00 | 0.00   | 1320.10 | Start Drop |
| 5   | 5963.69 | 0.00  | 331.65 | 5420.21 | 1555.00 | -839.03 | 3.00 | 180.00 | 1766.92 | Start Hold |
| 6   | 8153.48 | 0.00  | 331.65 | 7610.00 | 1555.00 | -839.03 | 0.00 | 331.65 | 1766.92 | TD         |

**WELL DETAILS**

| Name                     | +N/-S | +E/-W | Northing   | Easting    | Latitude      | Longitude      | Slot |
|--------------------------|-------|-------|------------|------------|---------------|----------------|------|
| Asphalt Wash 10-23-14-28 | 5.21  | 24.45 | 7143378.47 | 2247372.03 | 39°54'36.791N | 109°20'09.536W | N/A  |

**FIELD DETAILS**

Uintah, Utah  
Utah Central Zone  
U.S.A.  
  
Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igrf2005  
  
System Datum: Mean Sea Level  
Local North: True North

**SITE DETAILS**

NE/NW 33-10S-23E Pad  
Sec. 33, T10S, R23E, Uintah County, Utah  
  
Site Centre Latitude: 39°54'36.740N  
Longitude: 109°20'09.850W  
  
Ground Level: 5257.20  
Positional Uncertainty: 0.00

**TARGET DETAILS**

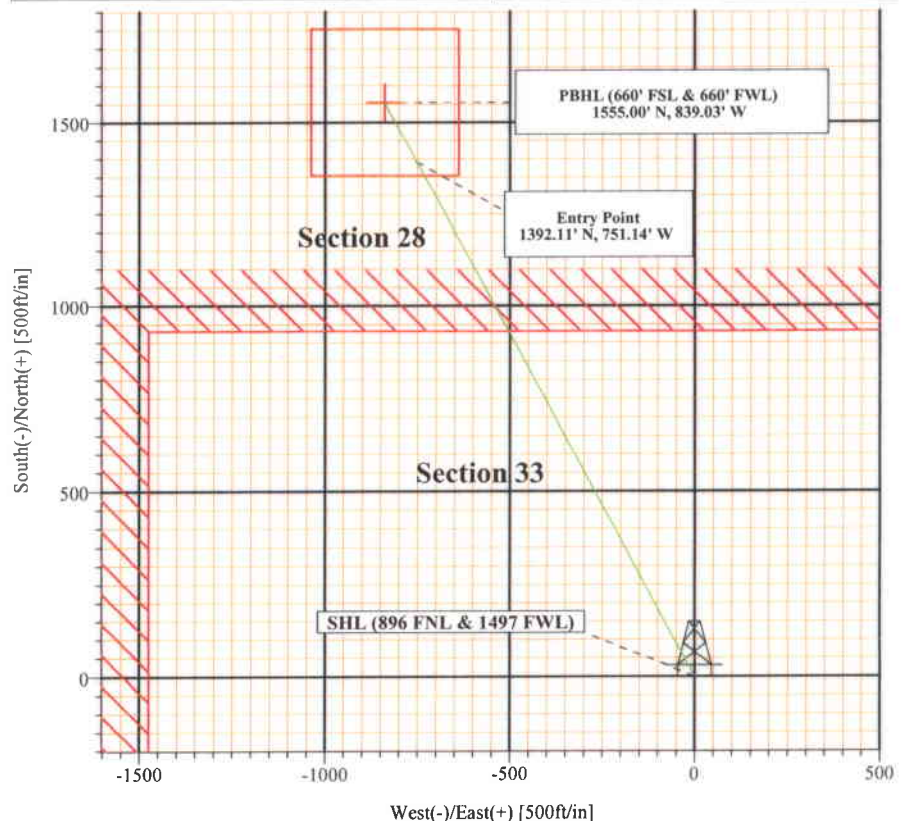
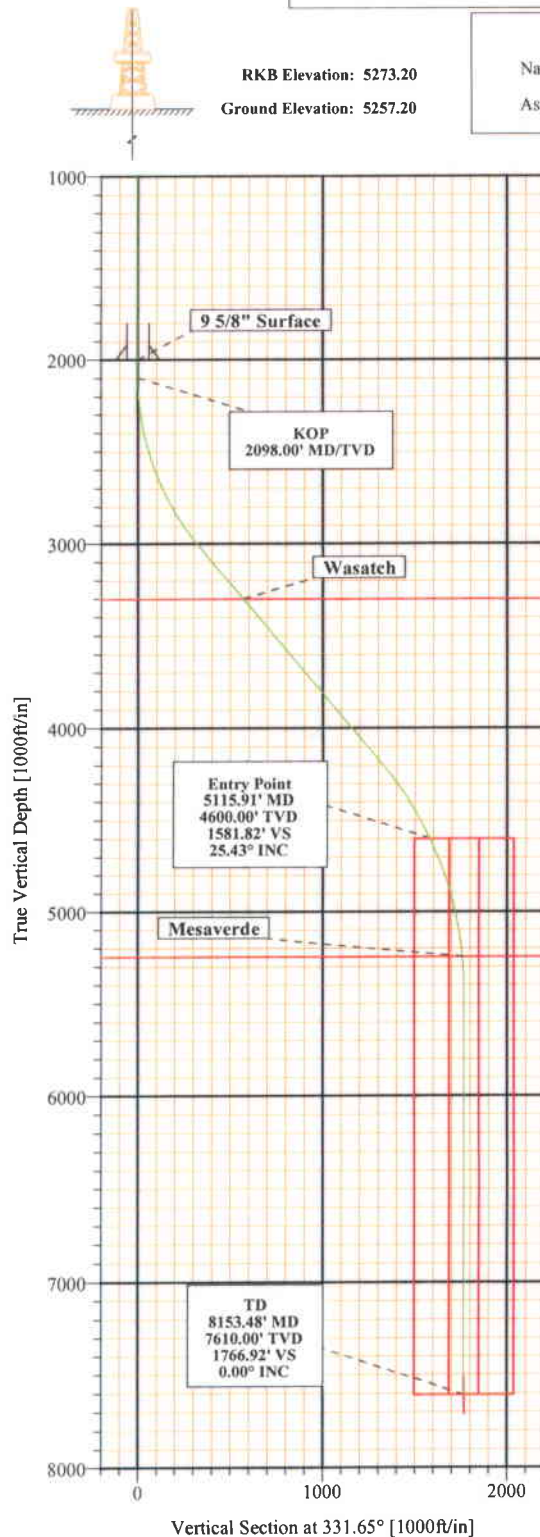
| Name               | TVD     | +N/-S   | +E/-W   | Shape               |
|--------------------|---------|---------|---------|---------------------|
| 10-23-14-28 Target | 7610.00 | 1555.00 | -839.03 | Rectangle (400x400) |

**CASING DETAILS**

| No. | TVD     | MD      | Name           | Size  |
|-----|---------|---------|----------------|-------|
| 1   | 2000.00 | 2000.00 | 9 5/8" Surface | 9.625 |

**FORMATION TOP DETAILS**

| No. | TVDPath | MDPath  | Formation   |
|-----|---------|---------|-------------|
| 1   | 186.00  | 186.00  | Green River |
| 2   | 3300.00 | 3465.18 | Wasatch     |
| 3   | 5245.00 | 5788.23 | Mesaverde   |



# Weatherford International

## Planning Report

|  |  |
|--|--|
| <b>Company:</b> Enduring Resources<br><b>Field:</b> Uintah, Utah<br><b>Site:</b> NE/NW 33-10S-23E Pad<br><b>Well:</b> Asphalt Wash 10-23-14-28<br><b>Wellpath:</b> 1 | <b>Date:</b> 2/9/2006<br><b>Co-ordinate(NE) Reference:</b> Well: Asphalt Wash 10-23-14-28<br><b>Vertical (TVD) Reference:</b> SITE 5273.2<br><b>Section (VS) Reference:</b> User (0.00N,0.00E,331.65Azi)<br><b>Plan:</b> Plan #1 |
|--|--|

|   |  |
|---|--|
| <b>Field:</b> Uintah, Utah<br>Utah Central Zone<br>U.S.A.<br><b>Map System:</b> US State Plane Coordinate System 1983<br><b>Geo Datum:</b> GRS 1980<br><b>Sys Datum:</b> Mean Sea Level | <b>Map Zone:</b> Utah, Central Zone<br><b>Coordinate System:</b> Well Centre<br><b>Geomagnetic Model:</b> igrf2005 |
|---|--|

**Site:** NE/NW 33-10S-23E Pad  
 Sec. 33, T10S, R23E, Uintah County, Utah

|                                      |                                |                                   |
|--------------------------------------|--------------------------------|-----------------------------------|
| <b>Site Position:</b>                | <b>Northing:</b> 7143372.67 ft | <b>Latitude:</b> 39 54 36.740 N   |
| <b>From:</b> Geographic              | <b>Easting:</b> 2247347.72 ft  | <b>Longitude:</b> 109 20 9.850 W  |
| <b>Position Uncertainty:</b> 0.00 ft |                                | <b>North Reference:</b> True      |
| <b>Ground Level:</b> 5257.20 ft      |                                | <b>Grid Convergence:</b> 1.39 deg |

|                                       |                                  |
|---------------------------------------|----------------------------------|
| <b>Well:</b> Asphalt Wash 10-23-14-28 | <b>Slot Name:</b>                |
| <b>Well Position:</b> +N/-S 5.21 ft   | <b>Latitude:</b> 39 54 36.791 N  |
| +E/-W 24.45 ft                        | <b>Longitude:</b> 109 20 9.536 W |
| <b>Position Uncertainty:</b> 0.00 ft  |                                  |

|   |   |
|---|---|
| <b>Wellpath:</b> 1                        | <b>Drilled From:</b> Surface              |
| <b>Current Datum:</b> SITE                | <b>Tie-on Depth:</b> 0.00 ft              |
| <b>Magnetic Data:</b> 2/9/2006            | <b>Above System Datum:</b> Mean Sea Level |
| <b>Field Strength:</b> 52887 nT           | <b>Declination:</b> 11.67 deg             |
| <b>Vertical Section:</b> Depth From (TVD) | <b>Mag Dip Angle:</b> 65.96 deg           |
| ft  | +N/-S ft                                  |
|   | +E/-W ft                                  |
|   | Direction deg                             |
| 0.00                                      | 0.00                                      |
|   | 0.00                                      |
|   | 331.65                                    |

|                       |                                |
|-----------------------|--------------------------------|
| <b>Plan:</b> Plan #1  | <b>Date Composed:</b> 2/9/2006 |
| <b>Principal:</b> Yes | <b>Version:</b> 1              |
|                       | <b>Tied-to:</b> From Surface   |

### Plan Section Information

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg | Target             |
|----------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|--------------------|
| 0.00     | 0.00        | 331.65      | 0.00      | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |                    |
| 2098.00  | 0.00        | 331.65      | 2098.00   | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 331.65     |                    |
| 3098.00  | 40.00       | 331.65      | 3018.73   | 294.92      | -159.13     | 4.00             | 4.00               | 0.00              | -28.35     |                    |
| 4630.36  | 40.00       | 331.65      | 4192.58   | 1161.77     | -626.86     | 0.00             | 0.00               | 0.00              | 0.00       |                    |
| 5963.69  | 0.00        | 331.65      | 5420.21   | 1555.00     | -839.03     | 3.00             | -3.00              | 0.00              | 180.00     |                    |
| 8153.48  | 0.00        | 331.65      | 7610.00   | 1555.00     | -839.03     | 0.00             | 0.00               | 0.00              | 331.65     | 10-23-14-28 Target |

### Section 1 : Start Hold

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 0.00     | 0.00        | 331.65      | 0.00      | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 0.00       |
| 2000.00  | 0.00        | 331.65      | 2000.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 331.65     |
| 2098.00  | 0.00        | 331.65      | 2098.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 331.65     |

### Section 2 : Start Build 4.00

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 2100.00  | 0.08        | 331.65      | 2100.00   | 0.00        | 0.00        | 0.00     | 4.00             | 4.00               | 0.00              | 0.00       |
| 2200.00  | 4.08        | 331.65      | 2199.91   | 3.19        | -1.72       | 3.63     | 4.00             | 4.00               | 0.00              | 0.00       |
| 2300.00  | 8.08        | 331.65      | 2299.33   | 12.51       | -6.75       | 14.22    | 4.00             | 4.00               | 0.00              | 0.00       |
| 2400.00  | 12.08       | 331.65      | 2397.77   | 27.91       | -15.06      | 31.72    | 4.00             | 4.00               | 0.00              | 0.00       |
| 2500.00  | 16.08       | 331.65      | 2494.74   | 49.32       | -26.61      | 56.04    | 4.00             | 4.00               | 0.00              | 0.00       |
| 2600.00  | 20.08       | 331.65      | 2589.79   | 76.63       | -41.35      | 87.07    | 4.00             | 4.00               | 0.00              | 0.00       |
| 2700.00  | 24.08       | 331.65      | 2682.43   | 109.70      | -59.19      | 124.65   | 4.00             | 4.00               | 0.00              | 0.00       |
| 2800.00  | 28.08       | 331.65      | 2772.23   | 148.38      | -80.06      | 168.61   | 4.00             | 4.00               | 0.00              | 0.00       |
| 2900.00  | 32.08       | 331.65      | 2858.75   | 192.48      | -103.86     | 218.72   | 4.00             | 4.00               | 0.00              | 0.00       |
| 3000.00  | 36.08       | 331.65      | 2941.56   | 241.79      | -130.46     | 274.74   | 4.00             | 4.00               | 0.00              | 0.00       |

# Weatherford International

## Planning Report

Company: Enduring Resources  
Field: Uintah, Utah  
Site: NE/NW 33-10S-23E Pad  
Well: Asphalt Wash 10-23-14-28  
Wellpath: 1

Date: 2/9/2006 Time: 14:12:08 Page: 2  
Co-ordinate(NE) Reference: Well: Asphalt Wash 10-23-14-28  
Vertical (TVD) Reference: SITE 5273.2  
Section (VS) Reference: User (0.00N,0.00E,331.65Azi)  
Plan: Plan #1

### Section 2 : Start Build 4.00

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 3098.00  | 40.00       | 331.65      | 3018.73   | 294.92      | -159.13     | 335.12   | 4.00             | 4.00               | 0.00              | 0.00       |

### Section 3 : Start Hold

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 3100.00  | 40.00       | 331.65      | 3020.26   | 296.06      | -159.74     | 336.40   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3200.00  | 40.00       | 331.65      | 3096.86   | 352.62      | -190.27     | 400.68   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3300.00  | 40.00       | 331.65      | 3173.47   | 409.19      | -220.79     | 464.96   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3400.00  | 40.00       | 331.65      | 3250.07   | 465.76      | -251.31     | 529.24   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3465.18  | 40.00       | 331.65      | 3300.00   | 502.63      | -271.21     | 571.13   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3500.00  | 40.00       | 331.65      | 3326.68   | 522.33      | -281.84     | 593.52   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3600.00  | 40.00       | 331.65      | 3403.28   | 578.90      | -312.36     | 657.80   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3700.00  | 40.00       | 331.65      | 3479.88   | 635.47      | -342.88     | 722.07   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3800.00  | 40.00       | 331.65      | 3556.49   | 692.04      | -373.41     | 786.35   | 0.00             | 0.00               | 0.00              | 0.00       |
| 3900.00  | 40.00       | 331.65      | 3633.09   | 748.61      | -403.93     | 850.63   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4000.00  | 40.00       | 331.65      | 3709.70   | 805.18      | -434.45     | 914.91   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4100.00  | 40.00       | 331.65      | 3786.30   | 861.75      | -464.97     | 979.19   | 0.00             | 0.00               | 0.00              | 0.00       |
| 4200.00  | 40.00       | 331.65      | 3862.91   | 918.32      | -495.50     | 1043.47  | 0.00             | 0.00               | 0.00              | 0.00       |
| 4300.00  | 40.00       | 331.65      | 3939.51   | 974.89      | -526.02     | 1107.75  | 0.00             | 0.00               | 0.00              | 0.00       |
| 4400.00  | 40.00       | 331.65      | 4016.12   | 1031.46     | -556.54     | 1172.03  | 0.00             | 0.00               | 0.00              | 0.00       |
| 4500.00  | 40.00       | 331.65      | 4092.72   | 1088.03     | -587.07     | 1236.30  | 0.00             | 0.00               | 0.00              | 0.00       |
| 4600.00  | 40.00       | 331.65      | 4169.32   | 1144.60     | -617.59     | 1300.58  | 0.00             | 0.00               | 0.00              | 0.00       |
| 4630.36  | 40.00       | 331.65      | 4192.58   | 1161.77     | -626.86     | 1320.10  | 0.00             | 0.00               | 0.00              | 0.00       |

### Section 4 : Start Drop -3.00

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 4700.00  | 37.91       | 331.65      | 4246.73   | 1200.30     | -647.65     | 1363.88  | 3.00             | -3.00              | 0.00              | 180.00     |
| 4800.00  | 34.91       | 331.65      | 4327.20   | 1252.53     | -675.83     | 1423.23  | 3.00             | -3.00              | 0.00              | 180.00     |
| 4900.00  | 31.91       | 331.65      | 4410.67   | 1300.99     | -701.97     | 1478.29  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5000.00  | 28.91       | 331.65      | 4496.90   | 1345.53     | -726.01     | 1528.90  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5100.00  | 25.91       | 331.65      | 4585.66   | 1386.04     | -747.87     | 1574.93  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5115.91  | 25.43       | 331.65      | 4600.00   | 1392.11     | -751.14     | 1581.82  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5200.00  | 22.91       | 331.65      | 4676.71   | 1422.41     | -767.49     | 1616.26  | 3.00             | -3.00              | 0.00              | -180.00    |
| 5300.00  | 19.91       | 331.65      | 4769.80   | 1454.53     | -784.82     | 1652.76  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5400.00  | 16.91       | 331.65      | 4864.67   | 1482.32     | -799.82     | 1684.34  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5500.00  | 13.91       | 331.65      | 4961.06   | 1505.71     | -812.43     | 1710.91  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5600.00  | 10.91       | 331.65      | 5058.72   | 1524.62     | -822.64     | 1732.40  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5700.00  | 7.91        | 331.65      | 5157.36   | 1539.01     | -830.40     | 1748.74  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5788.23  | 5.26        | 331.65      | 5245.00   | 1547.91     | -835.21     | 1758.87  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5800.00  | 4.91        | 331.65      | 5256.72   | 1548.83     | -835.70     | 1759.91  | 3.00             | -3.00              | 0.00              | -180.00    |
| 5900.00  | 1.91        | 331.65      | 5356.53   | 1554.07     | -838.53     | 1765.86  | 3.00             | -3.00              | 0.00              | 180.00     |
| 5963.69  | 0.00        | 331.65      | 5420.21   | 1555.00     | -839.03     | 1766.92  | 3.00             | -3.00              | 0.00              | -180.00    |

### Section 5 : Start Hold

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 6000.00  | 0.00        | 331.65      | 5456.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6100.00  | 0.00        | 331.65      | 5556.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6200.00  | 0.00        | 331.65      | 5656.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6300.00  | 0.00        | 331.65      | 5756.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6400.00  | 0.00        | 331.65      | 5856.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6500.00  | 0.00        | 331.65      | 5956.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6600.00  | 0.00        | 331.65      | 6056.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6700.00  | 0.00        | 331.65      | 6156.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6800.00  | 0.00        | 331.65      | 6256.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 6900.00  | 0.00        | 331.65      | 6356.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7000.00  | 0.00        | 331.65      | 6456.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7100.00  | 0.00        | 331.65      | 6556.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7200.00  | 0.00        | 331.65      | 6656.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7300.00  | 0.00        | 331.65      | 6756.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |

# Weatherford International

## Planning Report

Company: Enduring Resources  
Field: Uintah, Utah  
Site: NE/NW 33-10S-23E Pad  
Well: Asphalt Wash 10-23-14-28  
Wellpath: 1

Date: 2/9/2006 Time: 14:12:08 Page: 3  
Co-ordinate(NE) Reference: Well: Asphalt Wash 10-23-14-28  
Vertical (TVD) Reference: SITE 5273.2  
Section (VS) Reference: User (0.00N,0.00E,331.65Azi)  
Plan: Plan #1

### Section 5 : Start Hold

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 7400.00  | 0.00        | 331.65      | 6856.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7500.00  | 0.00        | 331.65      | 6956.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7600.00  | 0.00        | 331.65      | 7056.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7700.00  | 0.00        | 331.65      | 7156.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7800.00  | 0.00        | 331.65      | 7256.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 7900.00  | 0.00        | 331.65      | 7356.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 8000.00  | 0.00        | 331.65      | 7456.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 8100.00  | 0.00        | 331.65      | 7556.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |
| 8153.48  | 0.00        | 331.65      | 7610.00   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | 0.00       |

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment   |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|----------------|
| 2000.00  | 0.00        | 331.65      | 2000.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | 9 5/8" Surface |
| 2098.00  | 0.00        | 331.65      | 2098.00   | 0.00        | 0.00        | 0.00     | 0.00             | 0.00               | 0.00              | KOP            |
| 2100.00  | 0.08        | 331.65      | 2100.00   | 0.00        | 0.00        | 0.00     | 4.00             | 4.00               | 0.00              | MWD            |
| 2200.00  | 4.08        | 331.65      | 2199.91   | 3.19        | -1.72       | 3.63     | 4.00             | 4.00               | 0.00              | MWD            |
| 2300.00  | 8.08        | 331.65      | 2299.33   | 12.51       | -6.75       | 14.22    | 4.00             | 4.00               | 0.00              | MWD            |
| 2400.00  | 12.08       | 331.65      | 2397.77   | 27.91       | -15.06      | 31.72    | 4.00             | 4.00               | 0.00              | MWD            |
| 2500.00  | 16.08       | 331.65      | 2494.74   | 49.32       | -26.61      | 56.04    | 4.00             | 4.00               | 0.00              | MWD            |
| 2600.00  | 20.08       | 331.65      | 2589.79   | 76.63       | -41.35      | 87.07    | 4.00             | 4.00               | 0.00              | MWD            |
| 2700.00  | 24.08       | 331.65      | 2682.43   | 109.70      | -59.19      | 124.65   | 4.00             | 4.00               | 0.00              | MWD            |
| 2800.00  | 28.08       | 331.65      | 2772.23   | 148.38      | -80.06      | 168.61   | 4.00             | 4.00               | 0.00              | MWD            |
| 2900.00  | 32.08       | 331.65      | 2858.75   | 192.48      | -103.86     | 218.72   | 4.00             | 4.00               | 0.00              | MWD            |
| 3000.00  | 36.08       | 331.65      | 2941.56   | 241.79      | -130.46     | 274.74   | 4.00             | 4.00               | 0.00              | MWD            |
| 3098.00  | 40.00       | 331.65      | 3018.73   | 294.92      | -159.13     | 335.12   | 4.00             | 4.00               | 0.00              | End Build      |
| 3100.00  | 40.00       | 331.65      | 3020.26   | 296.06      | -159.74     | 336.40   | 0.00             | 0.00               | 0.00              | MWD            |
| 3200.00  | 40.00       | 331.65      | 3096.86   | 352.62      | -190.27     | 400.68   | 0.00             | 0.00               | 0.00              | MWD            |
| 3300.00  | 40.00       | 331.65      | 3173.47   | 409.19      | -220.79     | 464.96   | 0.00             | 0.00               | 0.00              | MWD            |
| 3400.00  | 40.00       | 331.65      | 3250.07   | 465.76      | -251.31     | 529.24   | 0.00             | 0.00               | 0.00              | MWD            |
| 3465.18  | 40.00       | 331.65      | 3300.00   | 502.63      | -271.21     | 571.13   | 0.00             | 0.00               | 0.00              | Wasatch        |
| 3500.00  | 40.00       | 331.65      | 3326.68   | 522.33      | -281.84     | 593.52   | 0.00             | 0.00               | 0.00              | MWD            |
| 3600.00  | 40.00       | 331.65      | 3403.28   | 578.90      | -312.36     | 657.80   | 0.00             | 0.00               | 0.00              | MWD            |
| 3700.00  | 40.00       | 331.65      | 3479.88   | 635.47      | -342.88     | 722.07   | 0.00             | 0.00               | 0.00              | MWD            |
| 3800.00  | 40.00       | 331.65      | 3556.49   | 692.04      | -373.41     | 786.35   | 0.00             | 0.00               | 0.00              | MWD            |
| 3900.00  | 40.00       | 331.65      | 3633.09   | 748.61      | -403.93     | 850.63   | 0.00             | 0.00               | 0.00              | MWD            |
| 4000.00  | 40.00       | 331.65      | 3709.70   | 805.18      | -434.45     | 914.91   | 0.00             | 0.00               | 0.00              | MWD            |
| 4100.00  | 40.00       | 331.65      | 3786.30   | 861.75      | -464.97     | 979.19   | 0.00             | 0.00               | 0.00              | MWD            |
| 4200.00  | 40.00       | 331.65      | 3862.91   | 918.32      | -495.50     | 1043.47  | 0.00             | 0.00               | 0.00              | MWD            |
| 4300.00  | 40.00       | 331.65      | 3939.51   | 974.89      | -526.02     | 1107.75  | 0.00             | 0.00               | 0.00              | MWD            |
| 4400.00  | 40.00       | 331.65      | 4016.12   | 1031.46     | -556.54     | 1172.03  | 0.00             | 0.00               | 0.00              | MWD            |
| 4500.00  | 40.00       | 331.65      | 4092.72   | 1088.03     | -587.07     | 1236.30  | 0.00             | 0.00               | 0.00              | MWD            |
| 4600.00  | 40.00       | 331.65      | 4169.32   | 1144.60     | -617.59     | 1300.58  | 0.00             | 0.00               | 0.00              | MWD            |
| 4630.36  | 40.00       | 331.65      | 4192.58   | 1161.77     | -626.86     | 1320.10  | 0.00             | 0.00               | 0.00              | Start Drop     |
| 4700.00  | 37.91       | 331.65      | 4246.73   | 1200.30     | -647.65     | 1363.88  | 3.00             | -3.00              | 0.00              | MWD            |
| 4800.00  | 34.91       | 331.65      | 4327.20   | 1252.53     | -675.83     | 1423.23  | 3.00             | -3.00              | 0.00              | MWD            |
| 4900.00  | 31.91       | 331.65      | 4410.67   | 1300.99     | -701.97     | 1478.29  | 3.00             | -3.00              | 0.00              | MWD            |
| 5000.00  | 28.91       | 331.65      | 4496.90   | 1345.53     | -726.01     | 1528.90  | 3.00             | -3.00              | 0.00              | MWD            |
| 5100.00  | 25.91       | 331.65      | 4585.66   | 1386.04     | -747.87     | 1574.93  | 3.00             | -3.00              | 0.00              | MWD            |
| 5115.91  | 25.43       | 331.65      | 4600.00   | 1392.11     | -751.14     | 1581.82  | 3.00             | -3.00              | 0.00              | Entry Point    |
| 5200.00  | 22.91       | 331.65      | 4676.71   | 1422.41     | -767.49     | 1616.26  | 3.00             | -3.00              | 0.00              | MWD            |
| 5300.00  | 19.91       | 331.65      | 4769.80   | 1454.53     | -784.82     | 1652.76  | 3.00             | -3.00              | 0.00              | MWD            |
| 5400.00  | 16.91       | 331.65      | 4864.67   | 1482.32     | -799.82     | 1684.34  | 3.00             | -3.00              | 0.00              | MWD            |
| 5500.00  | 13.91       | 331.65      | 4961.06   | 1505.71     | -812.43     | 1710.91  | 3.00             | -3.00              | 0.00              | MWD            |
| 5600.00  | 10.91       | 331.65      | 5058.72   | 1524.62     | -822.64     | 1732.40  | 3.00             | -3.00              | 0.00              | MWD            |



# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** NE/NW 33-10S-23E Pad  
**Well:** Asphalt Wash 10-23-14-28  
**Wellpath:** 1

**Date:** 2/9/2006 **Time:** 14:12:08 **Page:** 4  
**Co-ordinate(NE) Reference:** Well: Asphalt Wash 10-23-14-28  
**Vertical (TVD) Reference:** SITE 5273.2  
**Section (VS) Reference:** User (0.00N,0.00E,331.65Azi)  
**Plan:** Plan #1

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 5700.00  | 7.91        | 331.65      | 5157.36   | 1539.01     | -830.40     | 1748.74  | 3.00             | -3.00              | 0.00              | MWD          |
| 5788.23  | 5.26        | 331.65      | 5245.00   | 1547.91     | -835.21     | 1758.87  | 3.00             | -3.00              | 0.00              | Mesaverde    |
| 5800.00  | 4.91        | 331.65      | 5256.72   | 1548.83     | -835.70     | 1759.91  | 3.00             | -3.00              | 0.00              | MWD          |
| 5900.00  | 1.91        | 331.65      | 5356.53   | 1554.07     | -838.53     | 1765.86  | 3.00             | -3.00              | 0.00              | MWD          |
| 5963.69  | 0.00        | 331.65      | 5420.21   | 1555.00     | -839.03     | 1766.92  | 3.00             | -3.00              | 0.00              | Start Hold   |
| 6000.00  | 0.00        | 331.65      | 5456.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6100.00  | 0.00        | 331.65      | 5556.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6200.00  | 0.00        | 331.65      | 5656.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6300.00  | 0.00        | 331.65      | 5756.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6400.00  | 0.00        | 331.65      | 5856.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6500.00  | 0.00        | 331.65      | 5956.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6600.00  | 0.00        | 331.65      | 6056.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6700.00  | 0.00        | 331.65      | 6156.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6800.00  | 0.00        | 331.65      | 6256.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 6900.00  | 0.00        | 331.65      | 6356.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7000.00  | 0.00        | 331.65      | 6456.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7100.00  | 0.00        | 331.65      | 6556.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7200.00  | 0.00        | 331.65      | 6656.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7300.00  | 0.00        | 331.65      | 6756.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7400.00  | 0.00        | 331.65      | 6856.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7500.00  | 0.00        | 331.65      | 6956.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7600.00  | 0.00        | 331.65      | 7056.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7700.00  | 0.00        | 331.65      | 7156.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7800.00  | 0.00        | 331.65      | 7256.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 7900.00  | 0.00        | 331.65      | 7356.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 8000.00  | 0.00        | 331.65      | 7456.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 8100.00  | 0.00        | 331.65      | 7556.52   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | MWD          |
| 8153.48  | 0.00        | 331.65      | 7610.00   | 1555.00     | -839.03     | 1766.92  | 0.00             | 0.00               | 0.00              | TD           |

### Targets

| Name   | Description<br>Dip. Dir. | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | ← Latitude →<br>Deg Min Sec |    |        | ← Longitude →<br>Deg Min Sec |     |             |
|--|--------------------------|-----------|-------------|-------------|-----------------------|----------------------|-----------------------------|----|--------|------------------------------|-----|-------------|
| 10-23-14-28 Target<br>-Rectangle (400x400)<br>-Plan hit target |                          | 7610.00   | 1555.00     | -839.03     | 7144912.72            | 2246495.66           | 39                          | 54 | 52.160 | N                            | 109 | 20 20.305 W |

### Casing Points

| MD<br>ft | TVD<br>ft | Diameter<br>in | Hole Size<br>in | Name           |
|----------|-----------|----------------|-----------------|----------------|
| 2000.00  | 2000.00   | 9.625          | 12.250          | 9 5/8" Surface |

### Formations

| MD<br>ft | TVD<br>ft | Formations  | Lithology | Dip Angle<br>deg | Dip Direction<br>deg |
|----------|-----------|-------------|-----------|------------------|----------------------|
| 186.00   | 186.00    | Green River |           | 0.00             | 0.00                 |
| 3465.18  | 3300.00   | Wasatch     |           | 0.00             | 0.00                 |
| 5788.23  | 5245.00   | Mesaverde   |           | 0.00             | 0.00                 |

# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** NE/NW 33-10S-23E Pad  
**Well:** Asphalt Wash 10-23-14-28  
**Wellpath:** 1

**Date:** 2/9/2006  
**Co-ordinate(NE) Reference:** Well: Asphalt Wash 10-23-14-28  
**Vertical (TVD) Reference:** SITE 5273.2  
**Section (VS) Reference:** User (0.00N,0.00E,331.65Azi)  
**Plan:** Plan #1

**Page:** 5

### Annotation

| MD<br>ft | TVD<br>ft |                          |
|----------|-----------|--------------------------|
| 2098.00  | 2098.00   | SHL (896 FNL & 1497 FWL) |
| 3098.00  | 3018.73   | KOP                      |
| 4630.36  | 4192.58   | End Build                |
| 5115.91  | 4600.00   | Start Drop               |
| 5963.69  | 5420.21   | Entry Point              |
| 8153.48  | 7610.00   | Start Hold               |
| 8153.48  | 7610.00   | TD                       |
| 8153.48  | 7610.00   | PBHL (660 FSL & 660 FWL) |

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

January 19, 2006

State of Utah  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801  
Attention: Ms. Diana Whitney

**RE: Asphalt Wash 10-23-14-28 Well**  
**Surface Location: NENW Sec. 33-10S-23E (3-well Location)**  
896' FNL - 1,497' FWL  
Lease Serial No.: UTU-73451  
**Bottom Hole Location: SWSW Sec. 28-10S-23E**  
660' FSL - 660' FWL  
Lease Serial No.: FEE (American Gilsonite)  
Uintah County, Utah

Dear Ms. Whitney:

Enduring Resources, LLC respectfully requests a spacing exception for the above-referenced well. Three wells will be drilled from this well pad. Surface locations will be 25', more or less apart. BHL's for each well will be in its own "assigned" 40-acre, 200' drilling window. No BHL's will be within 960' of each other. All of the wells on this pad are being drilled directional to limit surface impact.

Enduring Resources, LLC is the only lease owner within a 460' radius of:

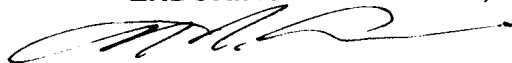
- any point of any of the well bores,
- surface locations, and
- BHL's, to be drilled from this pad.

Therefore, Enduring Resources, LLC hereby grants itself permission for the exception well locations.

Should you have any questions concerning this matter, please do not hesitate to call 303-350-5114 ([aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)).

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman - Regulatory Specialist

ara/

JAN 23 2006

# Enduring Resources, LLC

Asphalt Wash 10-23-14-28

Surface Location: NENW Sec. 33-T10S-R23E

BH Location: SWSW Sec. 28-T10S-R23E

Uintah County, Utah

Lease #: Fee – American Gilsonite

## ONSHORE ORDER 1 - DRILLING PLAN

### 1. Estimated Tops of Geological Markers:

| Formation   | Depth (K.B.) TVD |
|-------------|------------------|
| Uinta       | Surface          |
| Green River | 186'             |
| Wasatch     | 3300'            |
| Mesaverde   | 5245'            |

### 2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals:

| Substance | Formation                      | Depth (K.B.) TVD |
|-----------|--------------------------------|------------------|
|           |                                |                  |
|           | KB-Uinta Elevation: 5273' est. |                  |
| Oil / Gas | Green River                    | 186'             |
| Oil /Gas  | Wasatch                        | 3300'            |
| Oil /Gas  | Mesaverde                      | 5245'            |
|           | TD                             | 7610'            |

An 11" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

### 3. Pressure Control Equipment: (3000 psi schematic attached)

- A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer on 3,000 psi casinghead, with 3,000 psi choke manifold equipped per the attached diagram. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, stroke counter and flow sensor will be installed to check for flow and monitor pit volume.
- B. Pressure Rating: 3,000 psi BOPE
- C. Kelly will be equipped with upper and lower Kelly valves.
- D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

#### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### E. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

#### 4. Proposed Casing & Cementing Program:

##### A. Casing Program: All New

| Hole Size | Casing Size | Wt./Ft. | Grade | Joint | Depth Set (MD)      |
|-----------|-------------|---------|-------|-------|---------------------|
| 20"       | 14" O.D.    |         |       |       | 40' (GL)            |
| 11"       | 8-5/8"      | 24#     | J-55  | ST&C  | 0 – 2016' (KB) est. |
| 7-7/8"    | 4-1/2"      | 11.6#   | N-80  | LT&C  | 0 – 7610' (KB)      |

The surface casing will have guide shoe, 1 joint, insert float collar. Centralize the shoe joint with bowspring centralizers in the middle and top of the joint and the next 16 joints with bowspring centralizers on every other collar (8 centralizers total). Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

#### B. Casing Design Parameters:

| Depth (MD) | Casing                      | Collapse(psi)/SF | Burst (psi)/SF | Tension(mlbs)/SF |
|------------|-----------------------------|------------------|----------------|------------------|
| 40' (GL)   | 14" OD                      |                  |                |                  |
| 2016' (KB) | 8-5/8", 24#/ft, J55, STC    | 1370/1.52(a)     | 2950/3.28(b)   | 244/5.81(c)      |
| 7610' (KB) | 4-1/2", 11.6#/ft, N-80, LTC | 6350/1.61 (d)    | 7780/2.14 (e)  | 223/2.94 (f)     |

- (a.) based on full evacuation of pipe with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation of pipe with 10.0 ppg fluid on annulus
- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient
- (f.) based on casing string weight in 9.2 ppg mud

#### PROPOSED CEMENTING PROGRAM

##### Surface Casing (if well will circulate)-Cemented to surface

| CASING | SLURRY | FT. of FILL | CEMENT TYPE   | SXS | EXCESS (%) | WEIGHT (ppg) | YIELD (ft <sup>3</sup> /sx) |
|--------|--------|-------------|---|-----|------------|--------------|-----------------------------|
| 8-5/8" | Lead   | 1516        | Premium cement + 16% gel + 0.25 pps celloflake              | 138 | 25%        | 11.1         | 3.50                        |
| 8-5/8" | Tail   | 500         | Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake | 138 | 25%        | 15.8         | 1.15                        |

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft<sup>3</sup>/sx) cement will be premium cement w/ 3% CaCl<sub>2</sub> + 0.25 pps celloflake. Volume as required

##### Surface Casing (if well will not circulate) - Cemented to surface

| CASING | SLURRY  | FT. of FILL | CEMENT TYPE   | SXS     | EXCESS (%) | WEIGHT (ppg) | YIELD (ft <sup>3</sup> /sx) |
|--------|---------|-------------|---|---------|------------|--------------|-----------------------------|
| 8-5/8" | Lead    | 500         | Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake | 138     | 25         | 15.8         | 1.15                        |
| 8-5/8" | Top job | As req.     | Premium cement + 3% CaCl <sub>2</sub> + 0.25 pps celloflake | As Req. |            | 15.8         | 1.15                        |

**Production Casing and Liner** - Cemented TD to 300' above base of surface casing

| CASING | SLURRY | FT.<br>of<br>FILL | CEMENT TYPE   | SXS | EXCESS<br>(%) | WEIGHT<br>(ppg) | YIELD<br>(ft <sup>3</sup> /sx) |
|--------|--------|-------------------|---|-----|---------------|-----------------|--------------------------------|
| 4-1/2" | Lead   | 1184              | Class "G" + 5% NaCl<br>+ 12% Gel + 0.25<br>pps celloflake + 0.2%<br>antifoam + 0.25%<br>fluid loss +<br>1% extender | 104 | 25            | 11.0            | 3.3                            |
| 4-1/2" | Tail   | 4710              | 50/50 POZ Class G +<br>2% gel +1% CaCl <sub>2</sub><br>+ 0.2% dispersant<br>+ 0.2% fluid loss<br>+ 0.1% antifoam    | 860 | 25            | 14.3            | 1.56                           |

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to 300' above base of surface casing. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole. Actual cement types may vary due to hole conditions and cement contractor used.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

**5. Drilling Fluids (mud) Program:**

| Interval<br>(MD) | Mud Weight | Fluid Loss | Viscosity | Mud Type  |
|------------------|------------|------------|-----------|-----------|
| 0' – 2016' (KB)  |            | No cntrl   |           | Air/mist  |
| 2000'-3000' (KB) | 8.4-8.6    | No cntrl   | 28-36     | Water     |
| 3000'-7610' (KB) | 8.8-9.8    | 8 - 10 ml  | 32-42     | Water/Gel |

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

**6. Evaluation Program:**

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

Logging

- Dual Induction – SFL /Gamma Ray/Caliper/SP/TDLT/CNL/ML  
TD to Base Surface Casing
- Cement Bond Log / Gamma Ray:  
TD to Base of Surface Casing or Top of Cement if below Base of Surface Casing

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

7. **Abnormal Conditions:**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 3,957 psi (calculated at 0.52 psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,283 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. **Anticipated Starting Dates:**

- Anticipated Commencement Date- Within one year of APD issue.
- Drilling Days- Approximately 10 days
- Completion Days - Approximately 10 days
- Anticipate location construction within 30 days of permit issue.

9. **Variances:**

None anticipated

10. **Other:**

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining and the School and Institutional Trust lands Administration upon their receipt.

A measurement while drilling (MWD) system will be used to track and control the directional path of the wellbore.



**ENDURING RESOURCES**  
**Asphalt Wash 10-23-14-28**  
**Section 33, T10S, R23E, S.L.B.&M.**

**Directions to Surface Location of Asphalt Wash 10-23-14-28**

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 40.5 MILES TO THE JUNCTION OF THE DRAGON ROAD (COUNTY B ROAD 4180). THIS ROAD IS LOCATED APPROXIMATELY 4.8 MILES SOUTH OF BONANZA, UTAH. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY B ROAD 4180 APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THE KINGS WELLS ROAD (COUNTY B ROAD 4190). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 4190 APPROXIMATELY 8.7 MILES TO THE JUNCTION OF THE ATCHEE RIDGE ROAD (COUNTY B ROAD 4270). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4.3 MILES TO THE JUNCTION OF THE LONG DRAW ROAD (COUNTY B ROAD 4260). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF COUNTY B ROAD 4160. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4160 APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THE BITTER CREEK ROAD (COUNTY B ROAD 4120). EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG COUNTY B ROAD 4120 APPROXIMATELY 1.9 MILES TO THE JUNCTION OF COUNTY B ROAD 4230. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4230 APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THE ATCHEES WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4240 APPROXIMATELY 8.06 MILES TO THE PROPOSED ACCESS ROAD. TURN LEFT AND FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 3,350 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 83.25 MILES IN A SOUTHERLY DIRECTION.

# **Enduring Resources, LLC**

**Asphalt Wash 10-23-14-28**

**Surface Location: NENW Sec. 33-T10S-R23E**

**BH Location: SWSW Sec. 28-T10S-R23E**

**Uintah County, Utah**

**Lease #: Fee – American Gilsonite**

## **MULTI-POINT SURFACE USE & OPERATIONS PLAN**

### **1. Existing Roads:**

Directions to the SURFACE LOCATION of the Asphalt Wash 10-23-14-28

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 40.5 MILES TO THE JUNCTION OF THE DRAGON ROAD (COUNTY B ROAD 4180). THIS ROAD IS LOCATED APPROXIMATELY 4.8 MILES SOUTH OF BONANZA, UTAH. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY B ROAD 4180 APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THE KINGS WELLS ROAD (COUNTY B ROAD 4190). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 4190 APPROXIMATELY 8.7 MILES TO THE JUNCTION OF THE ATCHEE RIDGE ROAD (COUNTY B ROAD 4270). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4.3 MILES TO THE JUNCTION OF THE LONG DRAW ROAD (COUNTY B ROAD 4260). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF COUNTY B ROAD 4160. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4160 APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THE BITTER CREEK ROAD (COUNTY B ROAD 4120). EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG COUNTY B ROAD 4120 APPROXIMATELY 1.9 MILES TO THE JUNCTION OF COUNTY B ROAD 4230. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4230 APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THE ATCHEES WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4240 APPROXIMATELY 8.06 MILES TO THE PROPOSED ACCESS ROAD. TURN LEFT AND FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 3,350 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 83.25 MILES IN A SOUTHERLY DIRECTION.

**The surface location for the Asphalt Wash 10-23-21-33, Asphalt Wash 10-23-14-28 and Asphalt Wash 10-23-11-33 are all located on this same pad.**

## 2. Planned Access Roads:

The proposed access road will be approximately 5,040' feet of new construction being as follows for each well located on the pad.

| Road Segment | Owner | Distance | Asphalt Wash 10-23-21-33 | Asphalt Wash 10-23-14-28 | Asphalt Wash 10-23-11-33 |
|--------------|-------|----------|--------------------------|--------------------------|--------------------------|
| 1            | BLM   | 630'     | OFF-LEASE                | OFF-LEASE                | OFF-LEASE                |
| 2            | BLM   | 320'     | ON-LEASE                 | OFF-LEASE                | ON-LEASE                 |
| 3            | BLM   | 410'     | OFF-LEASE                | OFF-LEASE                | OFF-LEASE                |
| 4            | BLM   | 330'     | OFF-LEASE                | OFF-LEASE                | OFF-LEASE                |
| 5            | BLM   | 2,310'   | OFF-LEASE                | OFF-LEASE                | OFF-LEASE                |
| 6            | BLM   | 1,040'   | ON-LEASE                 | OFF-LEASE                | ON-LEASE                 |
| Total        |       | 5,040'   |                          |                          |                          |

**ALL NEW CONSTRUCTION IS ON BLM LANDS.** The balance of the OFF-LEASE road is a Class D County Road (Atchee Wash Road). However, this County Road Class D Road will be improved to meet BLM requirements, if needed. **Please refer to Topo Map "B" for the takeoff point for the new road construction and the Class D County Road that will be improved.**

**An OFF-LEASE 30' wide, access road right-of-way across BLM off-lease lands to access these wells will be needed and is requested herein.**

The proposed access road will be utilized to transport personnel, equipment and supplies to and from the proposed well site during drilling, completion and production operations. The road will be utilized year round.

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-of-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provided a well constructed, safe road. No fence crossings, culverts, turnouts, cattle guards or major cuts and fills are required. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation

of debris in the drainage crossing nor shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away from the road.

### 3. **Location of Existing Wells within a One-Mile radius (See "Topo" Map "C" attached):**

The following wells are wells located within a one (1) mile or greater radius of the proposed location.

- |    |          |  |
|----|----------|--|
| a. | None:    | Water Wells:   |
| b. | None:    | Injection Wells:                                       |
| c. | (3):     | Producing Wells:                                       |
|    |          | i. Rock House 2D-32, NWNE Sec. 32-10S-23E              |
|    |          | ii. Rock House 6D-32, SENW Sec. 32-10S-23E             |
|    |          | iii. Rock House 10D-32, NWSE Sec. 32-10S-23E           |
| d. | None:    | Drilling Wells:  |
| e. | None:    | Shut-in Wells:   |
| f. | None:    | Temporarily Abandoned Wells:                           |
| g. | None:    | Disposal Wells:  |
| h. | None:    | Abandoned Wells:                                       |
| i. | None:    | Dry Holes:   |
| j. | None:    | Observation Wells:                                     |
| k. | Various: | Pending (staked) Wells:                                |
|    |          | i. Various wells staked by Enduring in Sec. 33-10S-23E |

### 4. **Location of Existing and/or Proposed Facilities:**

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the rocky Mountain Five State Inter-Agency Committee

All facilities will be painted within 6 months of installation. The color shall be Dark Olive Black. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Gas Gathering Pipeline for each well drilled on with pad will be:

| P/L Segment | Owner | Distance | Asphalt Wash 10-23-21-33 | Asphalt Wash 10-23-14-28 | Asphalt Wash 10-23-11-33 |
|-------------|-------|----------|--------------------------|--------------------------|--------------------------|
| 1           | BLM   | 690'     | OFF-LEASE                | OFF-LEASE                | OFF-LEASE                |
| 2           | BLM   | 4,600'   | OFF-LEASE                | OFF-LEASE                | OFF-LEASE                |
| 3           | BLM   | 1,010'   | ON-LEASE                 | OFF-LEASE                | ON-LEASE                 |
| Total       |       | 6,300'   |                          |                          |                          |

A surface gas gathering pipeline is currently being permitted from the Asphalt Wash 10-23-22-33 Well (SENE of Sec. 33-10S-23E). That well's pipeline follows that well's access road east, then runs south along the Atchee Wash Road to a tie-in point into an existing 4" surface pipeline at the LAPAGIA #1 Well located in the NESE of Sec. 3-11S-23E.

If any of the three well drilled from this pad are capable of economic production, a 4" surface gas gathering line and related equipment shall be installed. The surface gas gathering line shall be in use year round. A total of approximately less than 6,300 feet of surface gas gathering pipeline shall be laid on the surface to minimize surface disturbance:

| P/L Segment | Owner | Distance | Asphalt Wash 10-23-21-33                         | Asphalt Wash 10-23-14-28 | Asphalt Wash 10-23-11-33 |
|-------------|-------|----------|--|--------------------------|--------------------------|
| 1           | BLM   | 690'     | OFF-LEASE  | OFF-LEASE                | OFF-LEASE                |
| 2           | BLM   | 4,600'   | OFF-LEASE  | OFF-LEASE                | OFF-LEASE                |
| 3           | BLM   | 1,010'   | ON-LEASE   | OFF-LEASE                | ON-LEASE                 |
| Total       |       | 6,300'   | 4" steel, unpainted, welded gas gather pipeline. |                          |                          |

The proposed pipeline will begin at the well site; and be laid on the surface next to the new access road (northeasterly), then continue south along the Atchee Wash Road to tie-in to a surface gas gathering pipeline currently being permitted from the Asphalt Wash 10-23-22-33 Well (SENE of Sec. 33-10S-23E). This proposed 4" surface pipeline then runs south along the Atchee Wash Road to a tie-in point into an existing 4" surface pipeline at the LAPAGIA #1 Well located in the NESE of Sec. 3-11S-23E.

**The OFF-LEASE 30 foot wide, surface, 4 inch pipeline right-of-way across BLM lands to sell natural gas from these wells is hereby requested adjacent to the access road for that portion of the pipeline located off-lease.**

The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.

Upon plugging and abandonment, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

5. **Location and Type of Water Supply:**

***Whenever feasible, water for drilling shall be acquired from Enduring Water User Claim 49-2215, Application #T76132., or if that source is not feasible, then by Target Trucking Water User Claim #43-2195, or by Dalbo Inc. Water User Claim #43-8496.***

Water will be hauled to the location over the roads marked on "Topo" Maps "A" and "B."

No water well is to be drilled on this lease.

6 **Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized for location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

7. **Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break or allow discharge of liquids.

The reserve pit will be lined with ¼ felt and a minimum of 16 mm plastic with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the will be disposed of in the pit.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

**8. Ancillary Facilities:**

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crews' housing and eating facilities. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 4.

**9. Well Site Layout: (Refer to Sheets #2, #3, and #4)**

The attached Location Layout Diagrams described drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

The top soil will be windrowed rather than piled. It will be reseeded and track walker at the time the location is constructed. Seeding will be with the determined during the onsite. (Refer to "Seed Mixture for Windrowed Top Soil Will included:" following herein.

The top soil removed from the pit area will be store separately and will not be reseeded until the pit is reclaimed.

All pits shall be fence to the following minimum standards:

- a. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- b. The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the new wire. Total height of the fence shall be at least 42 inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

- d. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.
- e. All wire shall be stretched by, using a stretching device, before it is attached to corner posts.
- f. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
- g. Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling, the location will be re-surveyed and a Form 9 will be submitted.

#### 10. Plans for Surface Reclamation:

##### **Producing Location:**

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production, ***or the drilling of additional wells from this same pad.***
- b. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40CFR 3162.7, ***unless that pit is being used for the drilling of additional wells from this same pad.***
- c. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.
- e. To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding round surface to allow the reclaimed pit area to drain effectively.
- f. Upon completion of back filling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

##### **Dry Hole/Abandoned Location:**

- i. Abandoned well sites, roads and other disturbed areas will be restored as nearly as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.
- ii. All disturbed surfaces will be re-contoured to the approximated natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. If necessary, re-seeding operations will be performed after completion of other reclamation operations.



**Seed Mixture for Windrowed Top Soil Will Included:**

To be provided by the BLM.

**11. Surface Ownership: Location, Access and Pipeline Route:**

Wellsite: Bureau of Land Management

Access: Bureau of Land Management

Pipeline: Bureau of Land management

**12. Other Information****On-site Inspection for Location, Access and Pipeline Route:**

The on-site was conducted October 4, 2005.

**Special Conditions of Approval:**

- Tanks and Production Equipment shall be painted Dark Olive Black.
- Surface Gathering Pipeline shall be 4" or less.

**Archeology:**

- a. A Cultural Resource Inventory Report is pending and to be prepared by Montgomery Archaeological Consultants.

**Paleontology:**

- a. A Paleontology Reconnaissance Report is pending and to be prepared by Intermountain Paleo-Consulting.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

**13, Lessee's or Operator's Representatives:****Representatives:**

Alvin R. (Al) Arlian  
Landman – Regulatory Specialist  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-350-5114  
Fax Tel: 303-573-0461  
[aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)

Frank Hutto  
Vice President – Operations  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-573-5102  
Fax Tel: 303-573-0461  
[fhutto@enduringresources.com](mailto:fhutto@enduringresources.com)

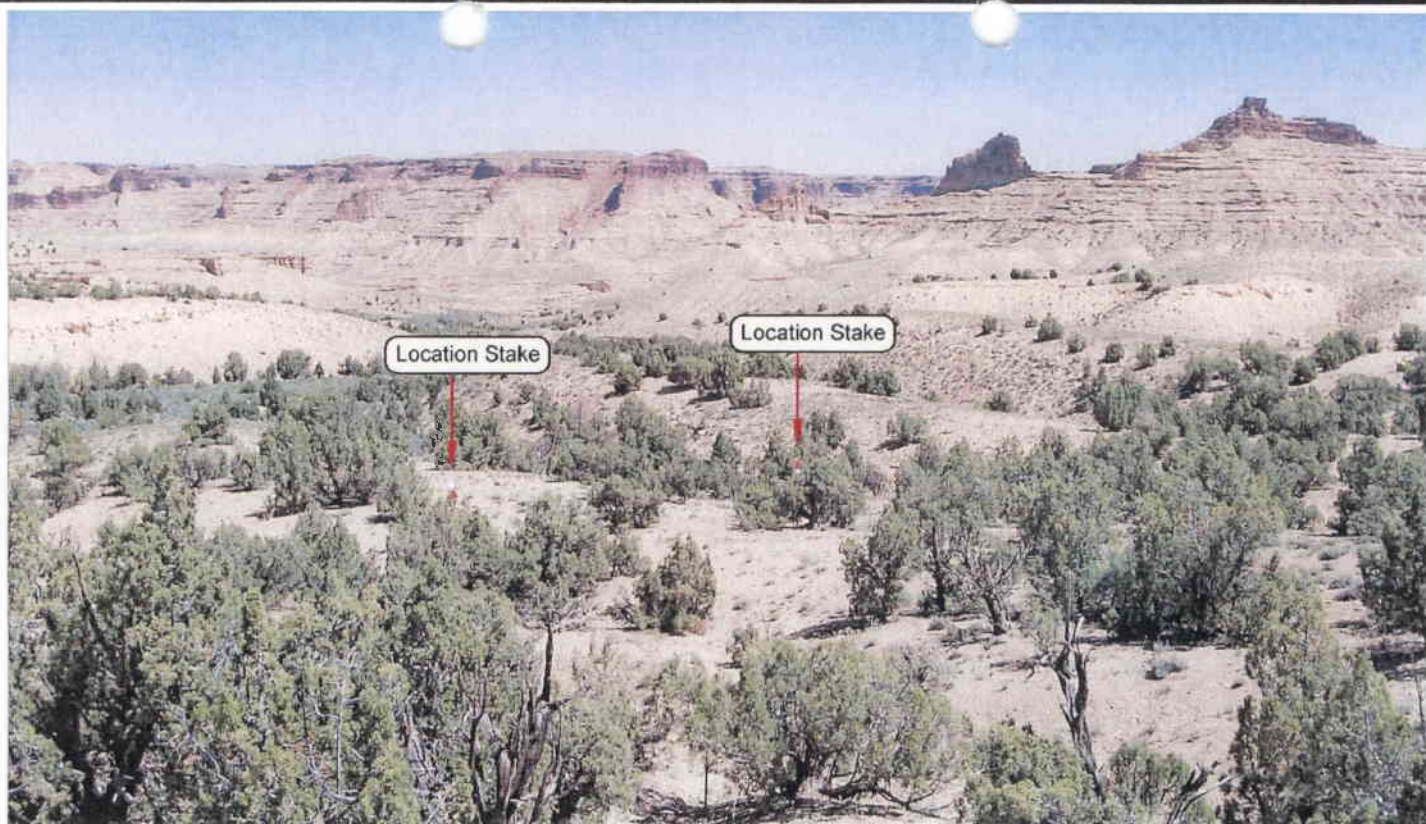


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

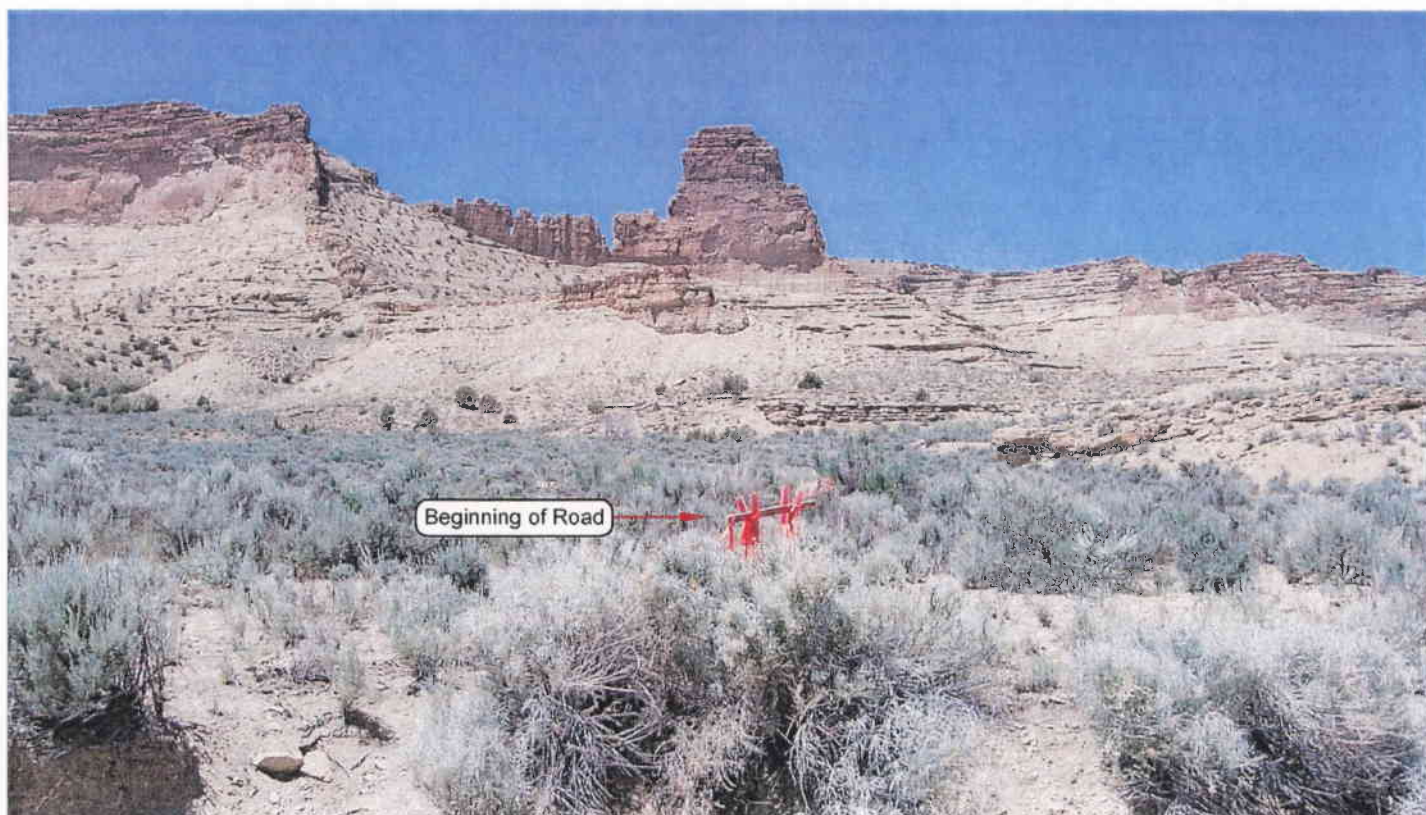


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: WESTERLY

## ENDURING RESOURCES

**Asphalt Wash 10-23-21-33, Asphalt Wash  
10-23-14-28 & Asphalt Wash 10-23-11-33  
SECTION & 33, T10S, R23E, S.L.B.&M.  
957' FNL & 1565' FWL**

### LOCATION PHOTOS

TAKEN BY: K.R.K.

DRAWN BY: B.J.S.

DATE TAKEN: 05-24-05

DATE DRAWN: 06-14-05

REVISED: 09-15-05

Timberline Land Surveying, Inc.  
38 West 100 North Vernal, Utah 84078  
(435) 789-1365

SHEET  
1  
OF 11

# L DURING RESOURCE

## WELL PAD INTERFERENCE PLAT ASPHALT WASH 10-23-11-33, ASPHALT WASH 10-23-14-28 & ASPHALT WASH 10-23-21-33

### SURFACE POSITION FOOTAGES:

ASPHALT WASH 10-23-11-33  
901' FNL & 1472' FWL

ASPHALT WASH 10-23-14-28  
896' FNL & 1497' FWL

ASPHALT WASH 10-23-21-33  
890' FNL & 1521' FWL

### BOTTOM HOLE FOOTAGES

ASPHALT WASH 10-23-11-33  
660' FNL 660' FWL

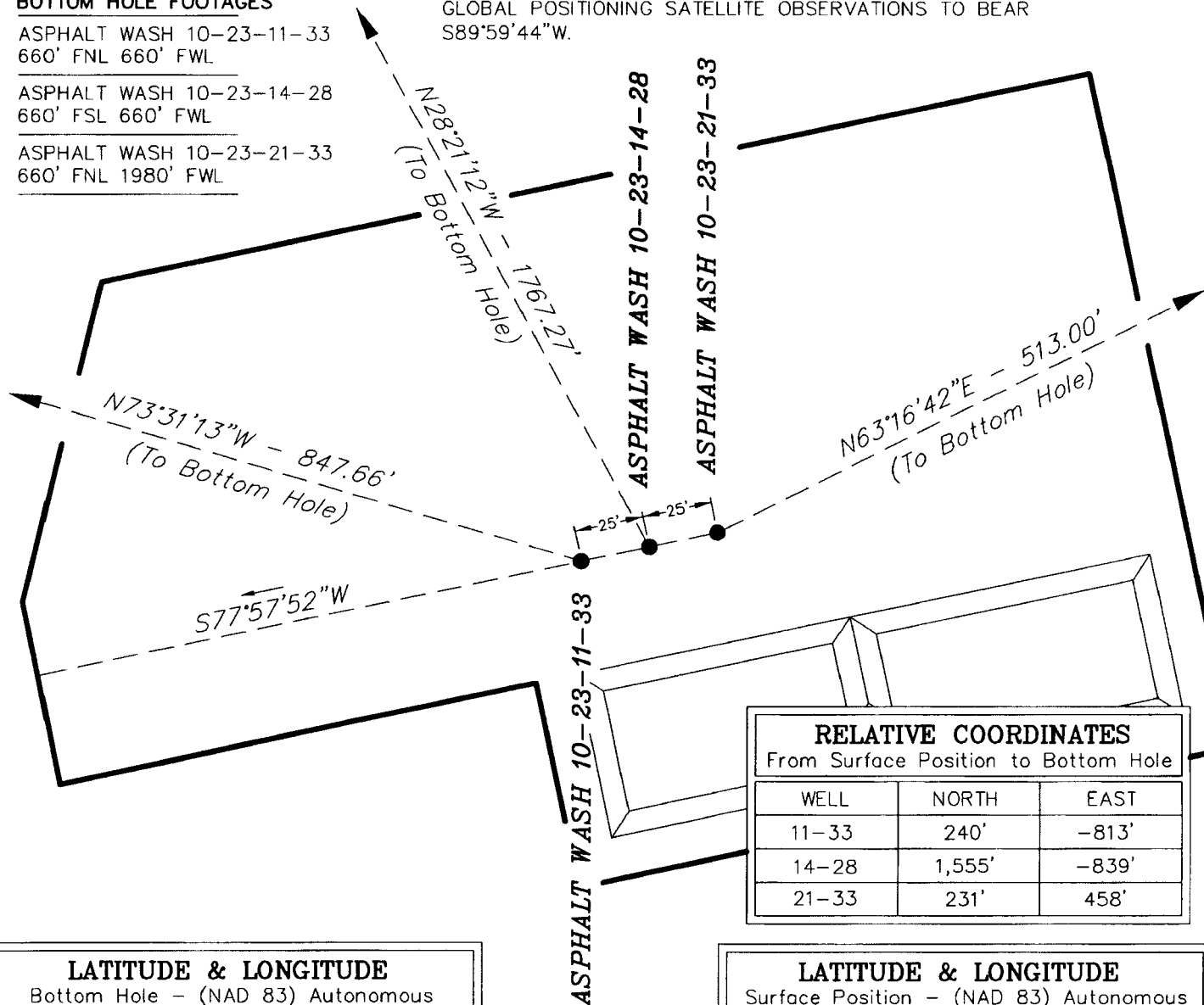
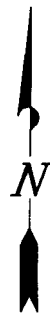
ASPHALT WASH 10-23-14-28  
660' FNL 660' FWL

ASPHALT WASH 10-23-21-33  
660' FNL 1980' FWL

BASIS OF ELEVATION IS TRIANGULATION STATION JEK 19 ET 1966 WHICH IS LOCATED AT THE SOUTH 1/4 CORNER OF SECTION 8, T11S, R23E, S.L.B.&M. THE ELEVATION OF THIS TRIANGULATION STATION IS SHOWN ON THE ARCHY BENCH SE 7.5 MIN. QUADRANGLE AS BEING 6054'.

PROPOSED GRADED GROUND  
ELEVATION OF PAD IS 5257.2'

BASIS OF BEARINGS IS THE SOUTH LINE OF THE SE 1/4 OF SECTION 33, T10S, R23E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S89°59'44"W.



### RELATIVE COORDINATES From Surface Position to Bottom Hole

| WELL  | NORTH  | EAST  |
|-------|--------|-------|
| 11-33 | 240'   | -813' |
| 14-28 | 1,555' | -839' |
| 21-33 | 231'   | 458'  |

### LATITUDE & LONGITUDE

Bottom Hole - (NAD 83) Autonomous

| WELL  | N. LATITUDE  | W. LONGITUDE  |
|-------|--------------|---------------|
| 11-33 | 39°54'39.12" | 109°20'20.28" |
| 14-28 | 39°54'52.16" | 109°20'20.30" |
| 21-33 | 39°54'39.12" | 109°20'03.34" |

### LATITUDE & LONGITUDE

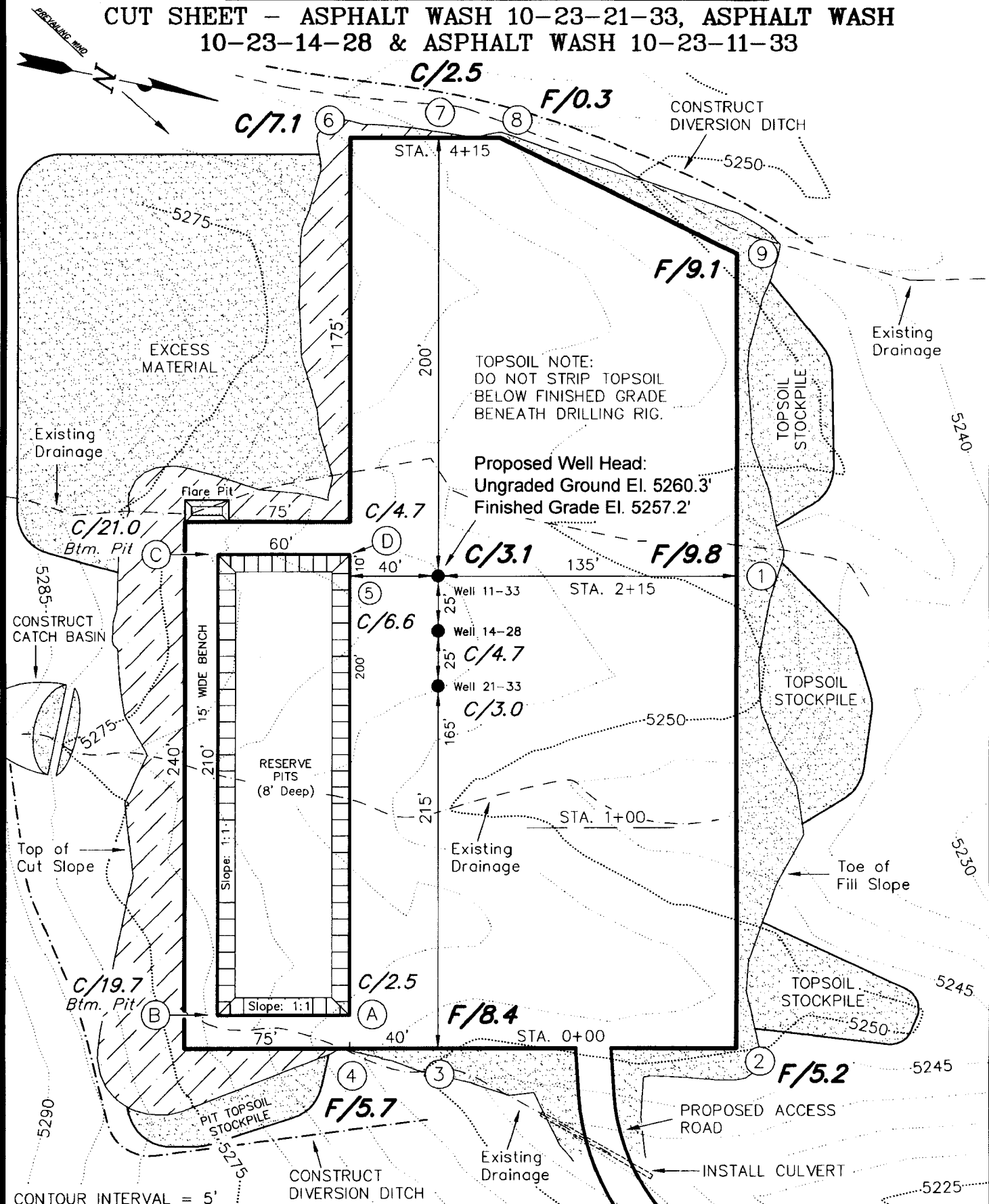
Surface Position - (NAD 83) Autonomous

| WELL  | N. LATITUDE  | W. LONGITUDE  |
|-------|--------------|---------------|
| 11-33 | 39°54'36.74" | 109°20'09.85" |
| 14-28 | 39°54'36.79" | 109°20'09.54" |
| 21-33 | 39°54'36.84" | 109°20'09.22" |



# ENDURING RESOURCES

CUT SHEET - ASPHALT WASH 10-23-21-33, ASPHALT WASH  
10-23-14-28 & ASPHALT WASH 10-23-11-33



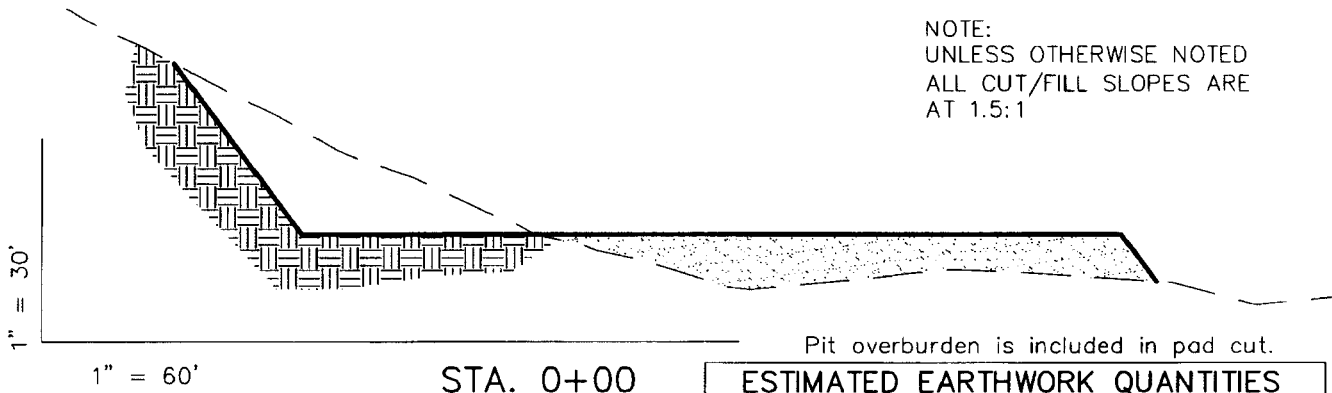
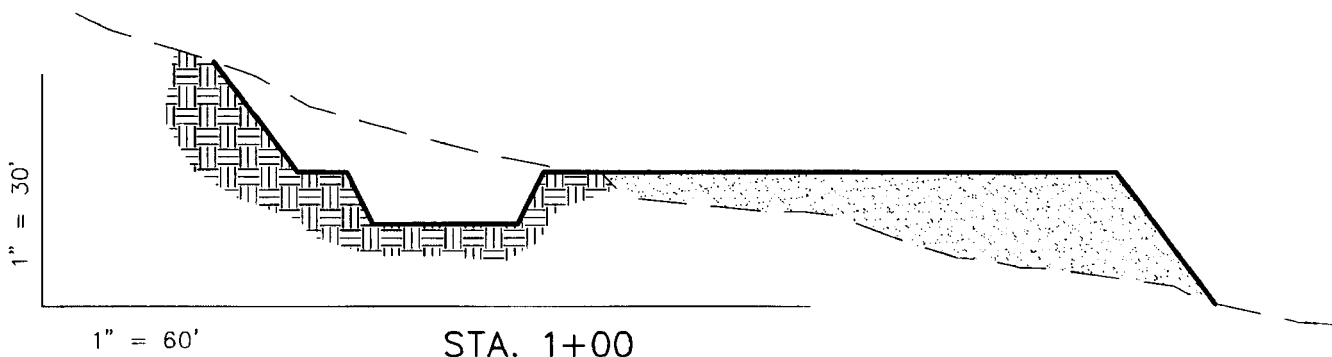
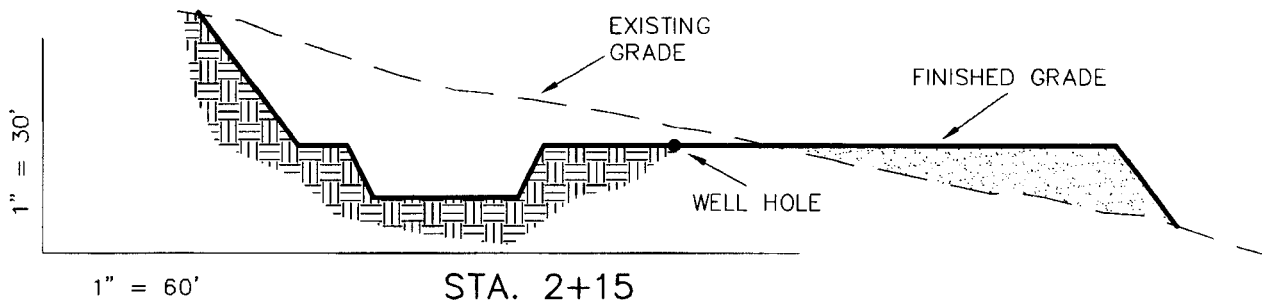
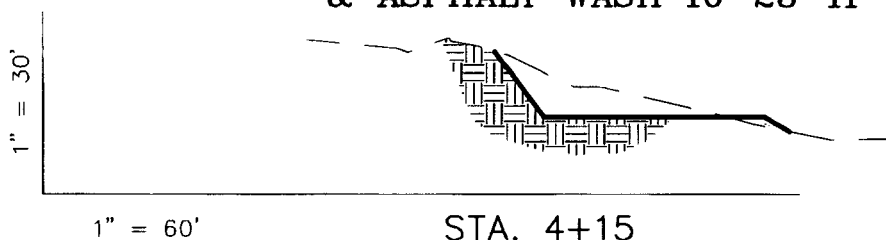
|                                   |                         |                         |   |
|-----------------------------------|-------------------------|-------------------------|---|
| Section 33, T10S, R23E, S.L.B.&M. |                         | Qtr/Qtr Location: NE NW | Footage Location: 890' FNL & 1521' FWL  |
| Date Surveyed:<br>11-02-05        | Date Drawn:<br>11-10-05 | Date Last Revision:     | <b>Timberline</b> (435) 789-1365<br><b>Land Surveying, Inc.</b><br>38 WEST 100 NORTH VERNAL, UTAH 84078 |
| Surveyed By: B.J.S.               | Drawn By: J.R.S.        | Scale: 1" = 60'         |   |

**SHEET**  
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**OF 11**

# ENDURING RESOURCES

## CROSS SECTIONS

ASPHALT WASH 10-23-21-33, ASPHALT WASH 10-23-14-28  
& ASPHALT WASH 10-23-11-33



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

Pit overburden is included in pad cut.

### REFERENCE POINTS

185' NORTHERLY = 5238.5'  
235' NORTHERLY = 5244.3'  
250' WESTERLY = 5266.2'  
300' WESTERLY = 5269.9'

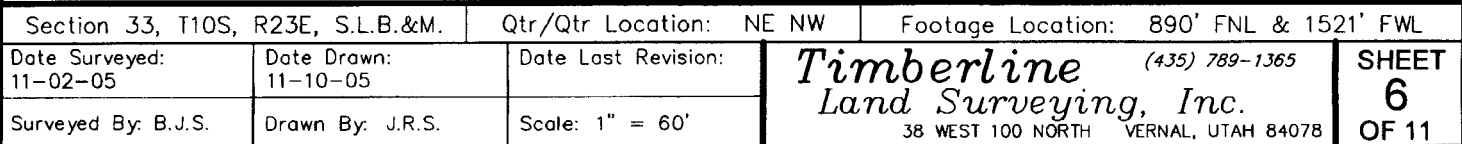
**ESTIMATED EARTHWORK QUANTITIES**  
(No shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

| ITEM   | CUT    | FILL  | 6" TOPSOIL                               | EXCESS |
|--------|--------|-------|--|--------|
| PAD    | 11,460 | 9,460 | Topsoil is<br>not included<br>in Pad Cut | 2,000  |
| PIT    | 3,110  | 0     |  | 3,110  |
| TOTALS | 14,570 | 9,460 | 1,680                                    | 5,110  |

Excess Material after Pit Rehabilitation = 3,550 Cu. Yds.

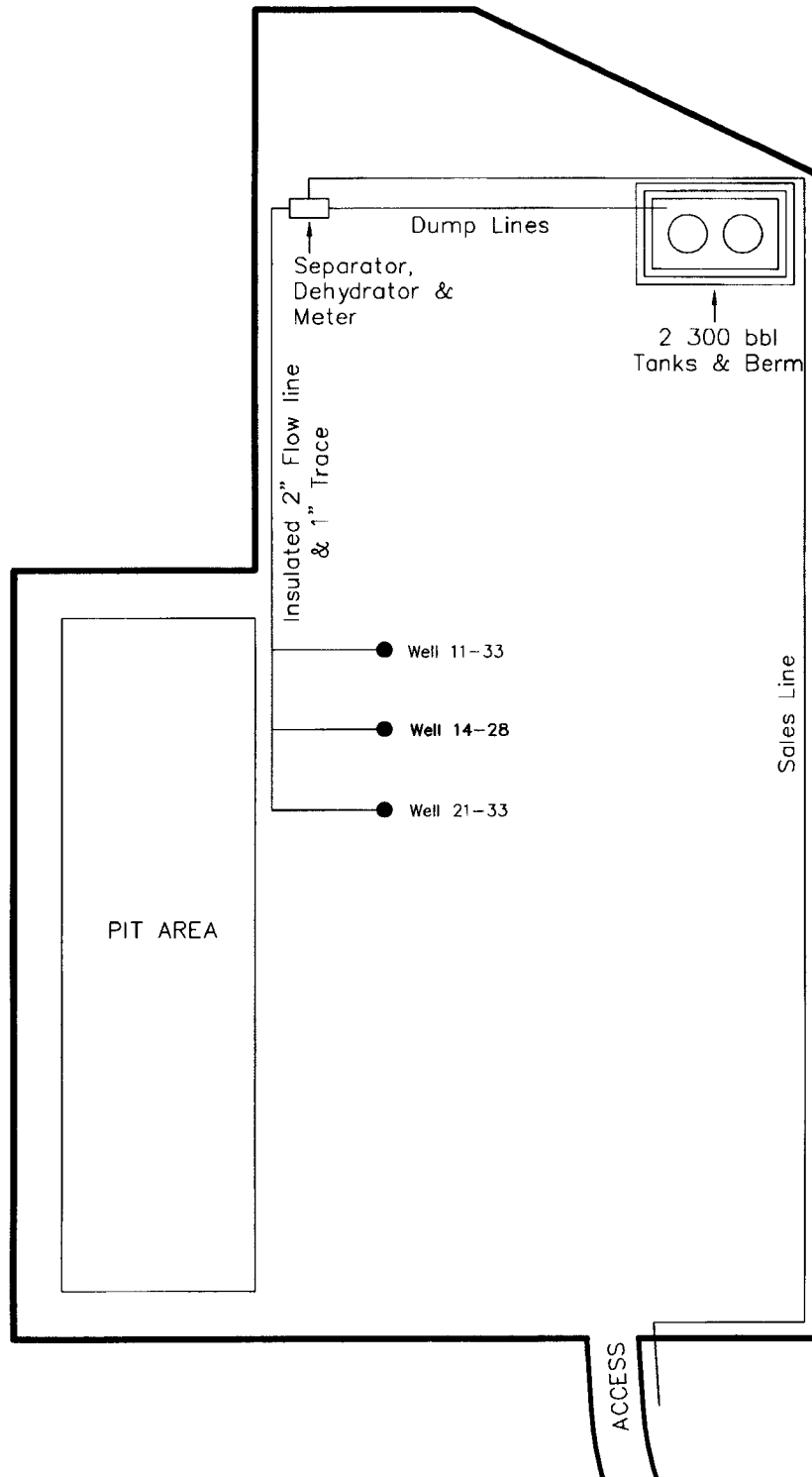
|                                   |                         |                         |   |  |                     |
|-----------------------------------|-------------------------|-------------------------|---|--|---------------------|
| Section 33, T10S, R23E, S.L.B.&M. |                         | Qtr/Qtr Location: NE NW |   | Footage Location: 890' FNL & 1521' FWL |                     |
| Date Surveyed:<br>11-02-05        | Date Drawn:<br>11-10-05 | Date Last Revision:     | <i>Timberline</i> (435) 789-1365<br><i>Land Surveying, Inc.</i><br>38 WEST 100 NORTH VERNAL, UTAH 84078 |  | SHEET<br>5<br>OF 11 |
| Surveyed By: B.J.S.               | Drawn By: J.R.S.        | Scale: 1" = 60'         |   |  |                     |

TYPICAL RIG LAYOUT  
 ASPHALT WASH 10-23-21-33, ASPHALT WASH 10-23-14-28  
 & ASPHALT WASH 10-23-11-33



# ENDURING RESOURCES

## TYPICAL PRODUCTION LAYOUT ASPHALT WASH 10-23-21-33, ASPHALT WASH 10-23-14-28 & ASPHALT WASH 10-23-11-33

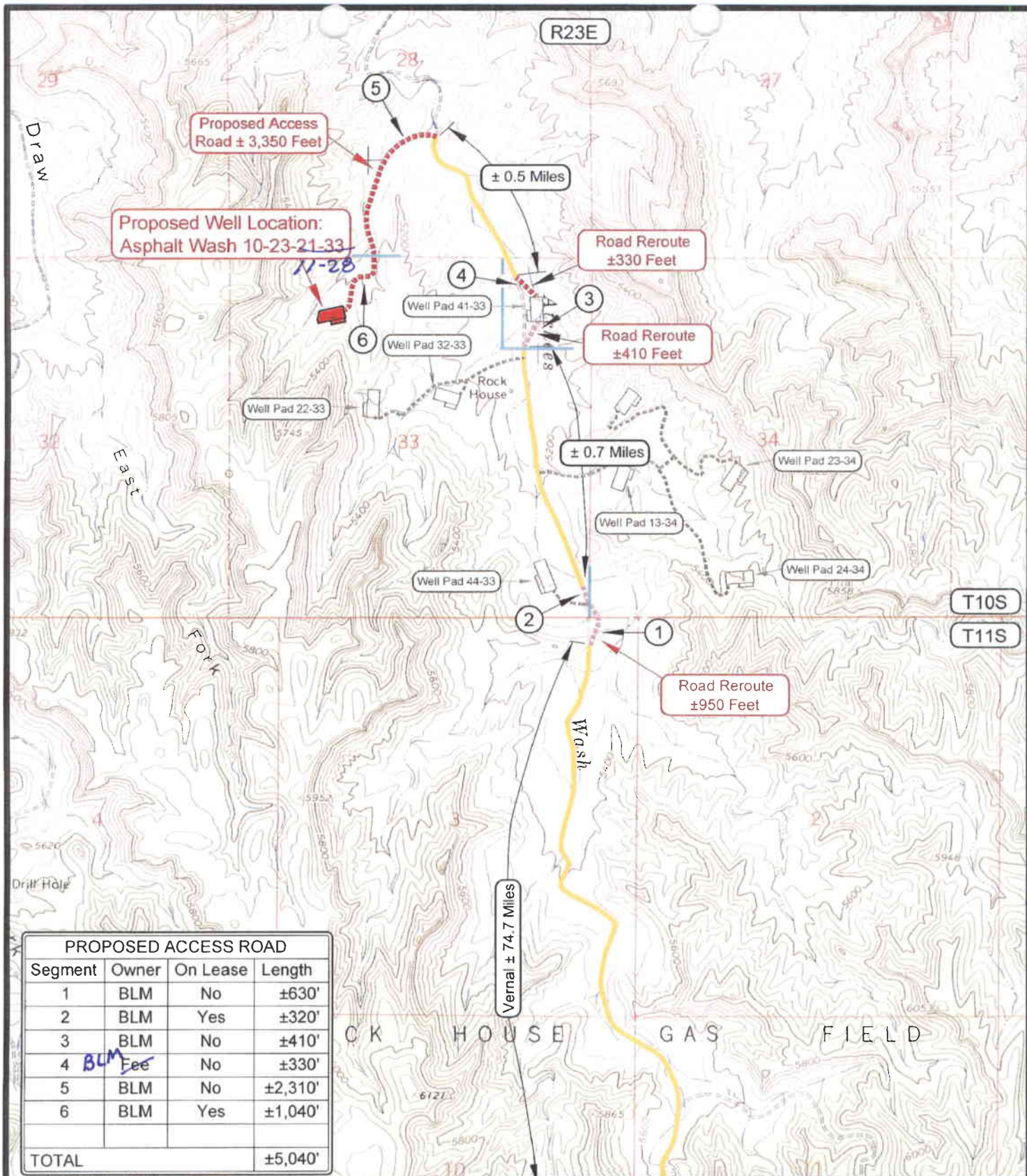


|                                   |                         |                         |   |
|-----------------------------------|-------------------------|-------------------------|---|
| Section 33, T10S, R23E, S.L.B.&M. |                         | Qtr/Qtr Location: NE NW | Footage Location: 890' FNL & 1521' FWL  |
| Date Surveyed:<br>11-02-05        | Date Drawn:<br>11-10-05 | Date Last Revision:     | <b>Timberline</b> (435) 789-1365<br><i>Land Surveying, Inc.</i><br>38 WEST 100 NORTH VERNAL, UTAH 84078 |
| Surveyed By: B.J.S.               | Drawn By: J.R.S.        | Scale: 1" = 60'         |   |
|                                   |                         |                         | <b>SHEET</b><br><b>7</b><br><b>OF 11</b>  |









| PROPOSED ACCESS ROAD |         |          |         |
|----------------------|---------|----------|---------|
| Segment              | Owner   | On Lease | Length  |
| 1                    | BLM     | No       | ±630'   |
| 2                    | BLM     | Yes      | ±320'   |
| 3                    | BLM     | No       | ±410'   |
| 4                    | BLM Fee | No       | ±330'   |
| 5                    | BLM     | No       | ±2,310' |
| 6                    | BLM     | Yes      | ±1,040' |
| TOTAL                |         |          | ±5,040' |

#### LEGEND

- PROPOSED ACCESS ROAD  
 ■■■■■ = SUBJECT WELL  
 ■■■■■ = SHARED ACCESS  
 — = EXISTING ROAD  
 — = EXISTING ROAD (TO BE IMPROVED)  
 (B-5460) = COUNTY ROAD CLASS & NUMBER  
 — = LEASE LINE AND / OR PROPERTY LINE

#### TOPOGRAPHIC MAP "B"

SCALE: 1" = 2000'

DRAWN BY: B.J.S.

DATE SURVEYED: 05-24-05

DATE DRAWN: 06-13-05

REVISED: 11-10-05

#### ENDURING RESOURCES

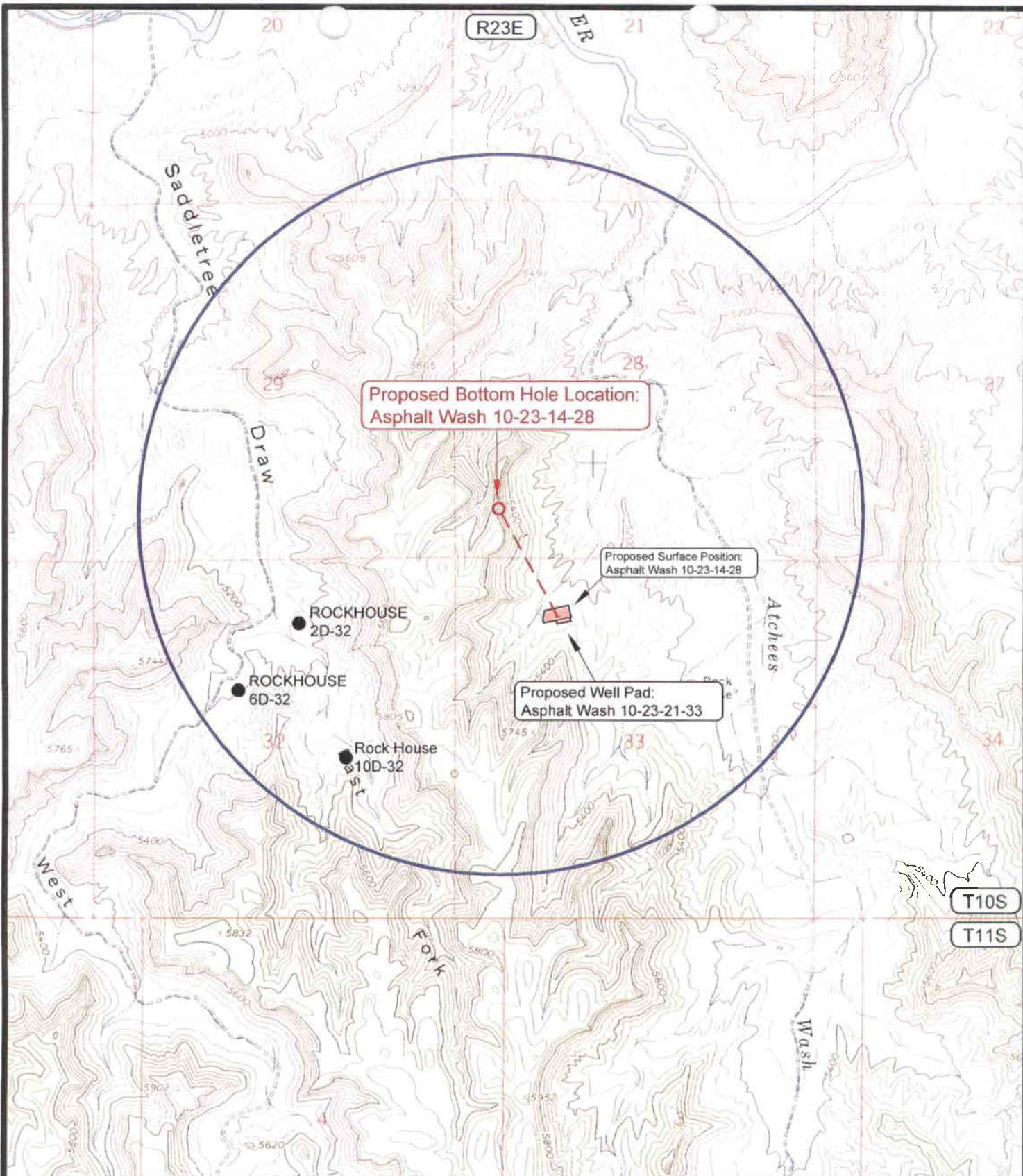
**Asphalt Wash 10-23-21-33, ASPHALT WASH  
 10-23-14-28 & ASPHALT WASH 10-23-11-33  
 SECTION 33, T10S, R23E, S.L.B.&M.  
 890' FNL & 1521' FWL**

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38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

SHEET  
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 OF 11





#### LEGEND

- |                    |                                |
|--------------------|--------------------------------|
| ⊘ = DISPOSAL WELL  | ⊘ = WATER WELL                 |
| ● = PRODUCING WELL | ● = ABANDONED WELL             |
| ● = SHUT IN WELL   | ● = TEMPORARILY ABANDONED WELL |

**TOPOGRAPHIC MAP "C"**

DATE SURVEYED: 05-19-05

DATE DRAWN: 06-14-05

SCALE: 1" = 2000'

DRAWN BY: B.J.S.

REVISED: 11-10-05

#### ENDURING RESOURCES

**Asphalt Wash 10-23-14-28**  
**SECTION 28, T10S, R23E, S.L.B.&M.**  
**Bottom Hole: 660' FSL & 660' FWL**

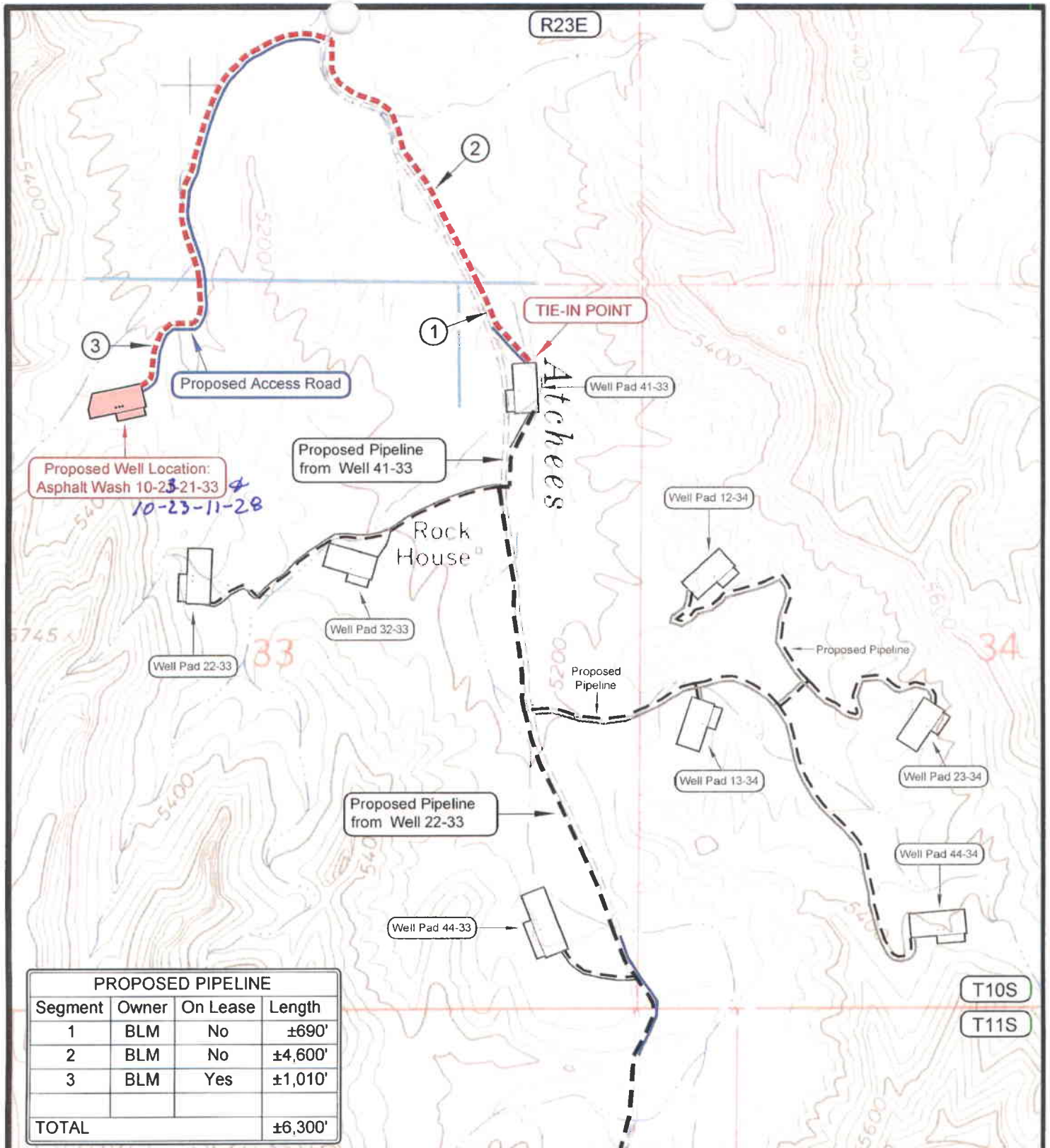
**Timberline Land Surveying, Inc.**

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 (435) 789-1365

**SHEET**

**10b**

**OF 11**



**APPROXIMATE PIPELINE LENGTH = 6,300 Feet**

#### LEGEND

- = OTHER PIPELINE
- - - - = PROPOSED PIPELINE
- == = PROPOSED ACCESS ROAD
- == = LEASE LINE AND / OR PROPERTY LINE

#### TOPOGRAPHIC MAP "D"

SCALE: 1" = 1000'

DRAWN BY: T.D.H.

DATE SURVEYED: 05-24-05

DATE DRAWN: 06-14-05

REVISED: 11-10-05

#### ENDURING RESOURCES

**Asphalt Wash 10-23-21-33, Asphalt Wash 10-23-14-28 & Asphalt Wash 10-23-11-33  
SECTION 33, T10S, R23E, S.L.B.&M.  
890' FNL & 1521' FWL**

**Timberline Land Surveying, Inc.**

38 West 100 North Vernal, Utah 84078  
(435) 789-1365

**SHEET**

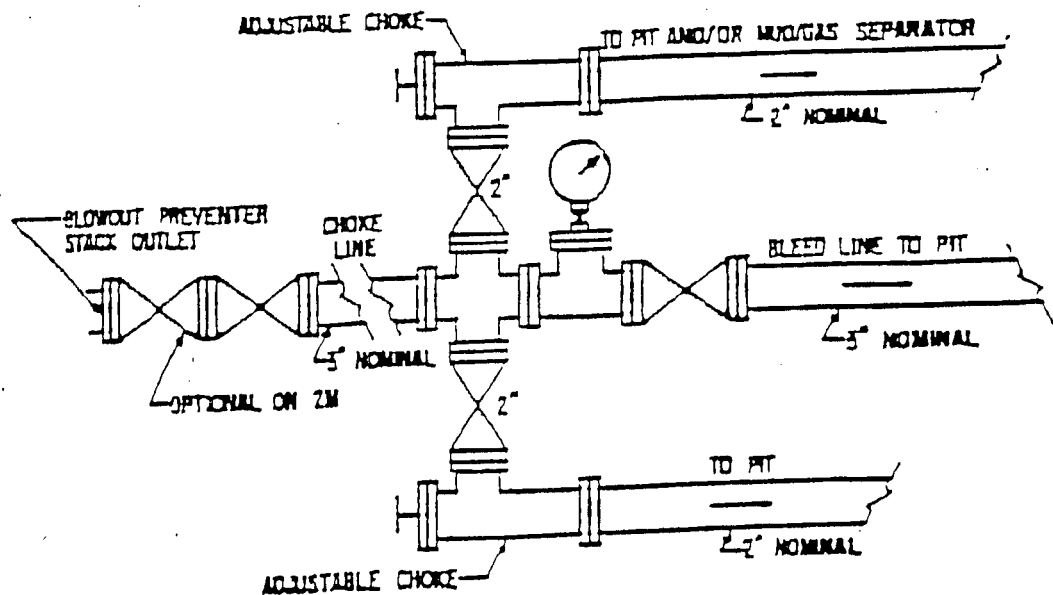
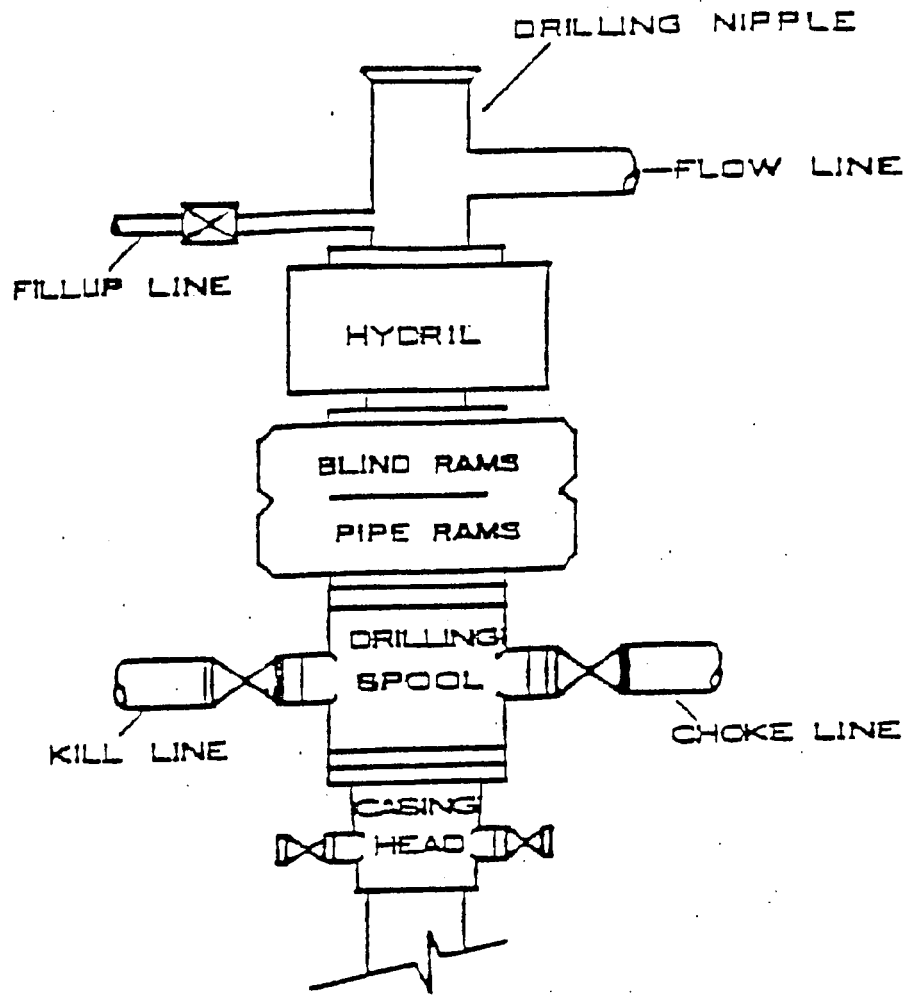
**11**

**OF 11**



3,000 PSI

## BOP STACK



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/23/2006

API NO. ASSIGNED: 43-047-37639

WELL NAME: ASPHALT WASH 10-23-14-28

OPERATOR: ENDURING RESOURCES, LLC ( N2750 )

PHONE NUMBER: 303-350-5114

CONTACT: AL ARLIAN

**PROPOSED LOCATION:**

NEW 33 100S 230E

SURFACE: 0896 FNL 1497 FWL

*Surf* BOTTOM: 0660 FSL 0660 FWL

COUNTY: Uintah

LATITUDE: 39.91019 LONGITUDE: -109.3353

UTM SURF EASTINGS: 642294 NORTHINGS: 4418906

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

| Tech Review | Initials    | Date          |
|-------------|-------------|---------------|
| Engineering | <i>Drew</i> | <i>3/6/06</i> |
| Geology     |             |               |
| Surface     |             |               |

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

PROPOSED FORMATION: MVRD

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0008031 )  
☐ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

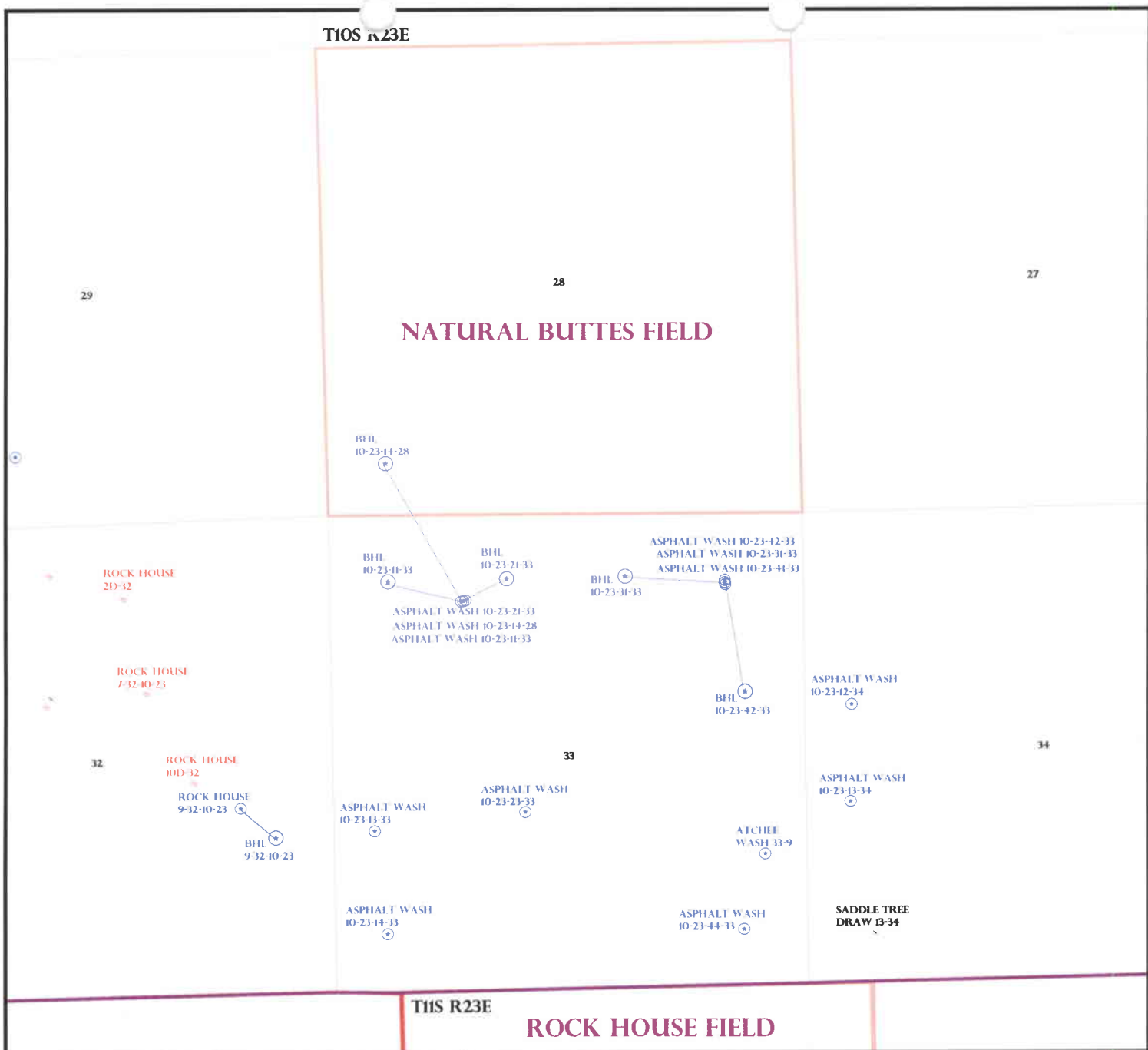
**LOCATION AND SITING:**

☐ R649-2-3.  
Unit: \_\_\_\_\_  
☐ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☐ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
☒ R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

*1- Federal Approval*  
*2- Spacing Stip*  
*3- Surface Csg Cont Stip*  
*4- STATEMENT OF BASIS*



OPERATOR: ENDURING RES LLC (N2750)

SEC: 33 T. 10S R. 23E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING

#### Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

#### Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 26-JANUARY-2006

**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**OPERATOR:** ENDURING RESOURCES, LLC  
**WELL NAME & NUMBER:** Asphalt Wash 10-23-14-28  
**API NUMBER:** 43-047-37639  
**SURFACE LOCATION:** 1/4,1/4 NE/NW Sec: 33 TWP: 10S RNG: 23E 896' FNL 1497' FWL  
**BOTTOM HOLE LOCATION:** 1/4,1/4 SW/SW Sec: 28 TWP: 10S RNG: 23E 660' FSL 660' FWL

**Geology/Ground Water:**

Enduring proposes to set 2,000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 4,300 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this location is the Uinta/Green River Formation transition. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The Green River Formation is made up of interbedded limestones, shales and sandstones. Fresh water aquifers can be found in the Green River Formation and should be protected. The proposed surface casing should adequately protect any potentially useable aquifers.

**Reviewer:** Brad Hill **Date:** 02-07-06

**Surface:**

The surface rights at the proposed location are owned and administered by the Federal Government. The operator is responsible for obtaining any required surface permits or rights-of-way from the BLM..

**Reviewer:** Brad Hill **Date:** 02-07-06

**Conditions of Approval/Application for Permit to Drill:**

None.



# 2-06 Enduring Buck Camp 16 2-3-14-28

## Casing Schematic

Uinta

Surface

8-5/8"  
MW 8.4  
Frac 19.3

TOC @  
1735.

Surface  
2000. MD  
2000. TVD

BHP

$$(0.52)(9.4)(7611) = 3878$$

Anticipate 3957

Gas

$$(0.12)(7611) = 913$$

MAASP = 2965

BORE - 3,000 ✓

Surf Csg - 2950

70% = 2065

Max pressure @ Surf Csg shoe = 2723

Test TO 2065# (propose 1500)

✓ (± 1200 psi surface pressure)

✓ Adequate

OK 3/6/06

4-1/2"  
MW 9.8

Production  
8154. MD  
7611. TVD

TOC @  
0. 186 Green River

1485 TOC Tail w/ 4% washcoat  
✓ \* Surface Stop

3042 TOC Tail

2300 washcoat

✓ propose TOC ± 1700'

w/ 5% washcoat

5245 Mesaverde

|  |                                 |
|--|---------------------------------|
| <b>Well name: 02-06 Enduring Buck Camp 10-23-14-28</b> |                                 |
| <b>Operator: Enduring Resources, LLC</b>               | <b>Project ID: 43-047-37639</b> |
| <b>String type: Surface</b>                            |                                 |
| <b>Location: Uintah County</b>                         |                                 |

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 93 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 250 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 1,760 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,000 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 1,748 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,611 ft  
Next mud weight: 9.800 ppg  
Next setting BHP: 3,874 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,000 ft  
Injection pressure 2,000 psi

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Internal Capacity (ft³) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-------------------------|
| 1       | 2000                | 8.625                   | 24.00                   | J-55             | ST&C                 | 2000                 | 2000                | 7.972                   | 96.3                    |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor   |
| 1       | 873                 | 1370                    | 1.570                   | 2000             | 2950                 | 1.48                 | 42                  | 244                     | 5.82 J                  |

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 810-359-3940

Date: March 3, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

|  |                                 |
|--|---------------------------------|
| Well name: <b>02-06 Enduring Buck Camp 10-23-14-28</b> |                                 |
| Operator: <b>Enduring Resources, LLC</b>               | Project ID: <b>43-047-37639</b> |
| String type: <b>Production</b>                         |                                 |
| Location: <b>Uintah County</b>                         |                                 |

**Design parameters:**
**Collapse**

Mud weight: 9.800 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 172 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 1,735 ft

**Burst**

Max anticipated surface pressure: 2,961 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 3,874 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Directional well information:**

Kick-off point 0 ft  
Departure at shoe: 1767 ft  
Maximum dogleg: 4 °/100ft  
Inclination at shoe: 0 °

Tension is based on buoyed weight.

Neutral point: 7,039 ft

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Internal Capacity (ft³) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-------------------------|
| 1       | 8154                | 4.5                     | 11.60                   | N-80             | LT&C                 | 7611                 | 8154                | 3.875                   | 189                     |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor   |
| 1       | 3874                | 6350                    | 1.639                   | 3874             | 7780                 | 2.01                 | 75                  | 223                     | 2.96 J                  |

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 810-359-3940

Date: March 3, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7611 ft, a mud weight of 9.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 7, 2006

Enduring Resources, LLC  
475 17th St., Ste. 1500  
Denver, CO 80202

Re: Asphalt Wash 10-23-14-28 Well, 896' FNL, 1497' FWL, NE NW, Sec. 33,  
T. 10 South, R. 23 East, Bottom Location 660' FSL, 660' FWL, SW SW,  
Sec. 28, T. 10 South, R. 23 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37639.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Enduring Resources, LLC  
**Well Name & Number** Asphalt Wash 10-23-14-28  
**API Number:** 43-047-37639  
**Lease:** Fee

**Location:** NE NW **Sec.** 33 **T.** 10 South **R.** 23 East  
**Bottom Location:** SW SW **Sec.** 28 **T.** 10 South **R.** 23 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### 5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
7. Surface casing shall be cemented to the surface.
8. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
9. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|  |  |  |
|--|--|--|
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____                      |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>FEE       |
| 2. NAME OF OPERATOR:<br>Enduring Resources, LLC  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>n/a         |
| 3. ADDRESS OF OPERATOR:<br>475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202  |  | 7. UNIT or CA AGREEMENT NAME:<br>n/a                 |
| PHONE NUMBER:<br>(303) 350-5719  |  | 8. WELL NAME and NUMBER:<br>Asphalt Wash 10-23-14-28 |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 896' FNL - 1497' FWL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 28 10S 23E S |  | 9. API NUMBER:<br>4304737639                         |
| COUNTY: Uintah   |  | 10. FIELD AND POOL, OR WILDCAT:<br>Undesignated      |
| STATE: UTAH  |  |  |

| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |   |   |  |
|---|---|---|--|
| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____ | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION               |
|   | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                    |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON                         |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                               |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                               |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>_____              | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                              |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                              |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: Request for APD Extension |
|   | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 3/7/2007  
TO: 3/7/2008

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-11-07  
By: 

1-16-07  
Rm

|   |                                       |
|---|---------------------------------------|
| NAME (PLEASE PRINT) Evette Bissett  | TITLE Regulatory Compliance Assistant |
| SIGNATURE  | DATE 1/5/2007                         |

(This space for State use only)

RECEIVED

JAN 11 2007

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737639  
**Well Name:** Asphalt Wash 10-23-14-28 33  
**Location:** 896' FNL - 1497' FWL, NENW, Sec 26, T10S-R23E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 3/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Quetta Bissett  
Signature

1/5/2007  
Date

**Title:** Regulatory Compliance Assistant

**Representing:** Enduring Resources, LLC

RECEIVED

JAN 11 2007

DIV. OF OIL, GAS & MINING



CONFIDENTIAL

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Enduring Resources, LLC

3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 350-5114

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 896' FNL - 1497' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 28 33 10S 23E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start: _____ | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION               |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                    |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON                         |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                               |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                               |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion: _____              | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                              |
|  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                              |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: Request for APD Extension |
|  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 1-11-2008  
TO: 1-11-2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR  
Date: 1-14-2008  
Initials: KS

Date: 01-10-08  
By: [Signature]

NAME (PLEASE PRINT) Alvin R. (Al) Arlian

TITLE Landman - Regulatory Specialist

SIGNATURE [Signature]

DATE 1/5/2008

(This space for State use only)

RECEIVED

JAN 10 2008

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737639  
**Well Name:** Asphalt Wash 10-23-14-28  
**Location:** 896' FNL - 1497' FWL, NENW, Sec 28, T10S-R23E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 3/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐



Signature

1/5/2008

Date

**Title:** Landman - Regulatory Specialist

**Representing:** Enduring Resources, LLC

**RECEIVED**

**JAN 10 2008**

**DIV. OF OIL, GAS & MINING**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

**CONFIDENTIAL**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|   |  |  |
|---|--|--|
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____   |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>FEE       |
| 2. NAME OF OPERATOR:<br>Enduring Resources, LLC   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>n/a         |
| 3. ADDRESS OF OPERATOR:<br>475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202   |  | 7. UNIT or CA AGREEMENT NAME:<br>n/a                 |
| PHONE NUMBER:<br>(303) 350-5114   |  | 8. WELL NAME and NUMBER:<br>Asphalt Wash 10-23-14-28 |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 896' FNL - 1497' FWL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW <sup>33</sup> <sub>28</sub> 10S 23E S |  | 9. API NUMBER:<br>4304737639                         |
| COUNTY: Uintah  |  | 10. FIELD AND POOL, OR WILDCAT:<br>Undesignated      |
| STATE: UTAH   |  |  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
|---|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____ | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION               |
|   | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                    |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON                         |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                               |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                               |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>_____              | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                              |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                              |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: Request for APD Extension |
|   | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 1/10/2009  
TO: ~~1/10/2010~~ DM

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-21-09  
By: [Signature]

NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman  
SIGNATURE [Signature] DATE 1/5/2009

(This space for State use only)

COPY SENT TO OPERATOR

Date: 1.22.2009

Initials: VS

(5/2000)

(See Instructions on Reverse Side)

RECEIVED

JAN 13 2009

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737639  
**Well Name:** Asphalt Wash 10-23-14-28 *33*  
**Location:** 896' FNL - 1497' FWL, NENW, Sec *28*, T10S-R23E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 3/7/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

1/5/2009

Date

Title: Administrative Assistant

Representing: Enduring Resources, LLC

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**JAN 13 2009**

DEPT. OF OIL, GAS & MINING



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 3, 2010

Al Arlian  
Enduring Resources, LLC  
475 17<sup>TH</sup> Street Ste 1500  
Denver, CO 80202


Re: APD Rescinded – Asphalt Wash 10-23-14-28, Sec. 33 T.10S, R. 23E  
Uintah County, Utah API No. 43-047-37639

Dear Mr. Arlian:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on March 7, 2006. On January 11, 2007, January 10, 2008 and January 21, 2009 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective February 3, 2010.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal